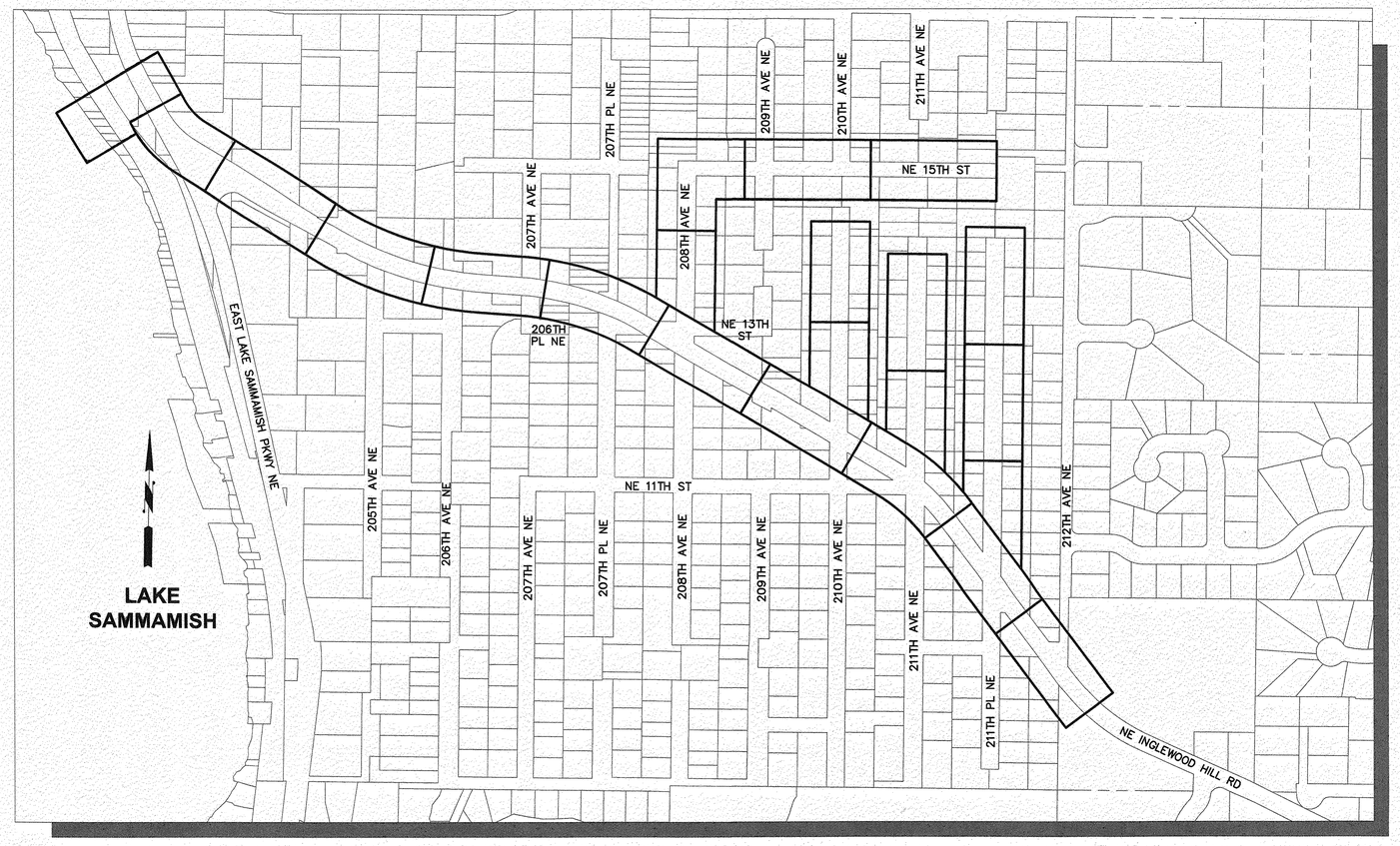
CITY OF SAMMAMISH

KING COUNTY, WASHINGTON

INGLEWOOD HILL STORMWATER RETROFIT AND NON-MOTORIZED IMPROVEMENT PROJECT

PROJECT NO.



VICINITY MAP
1" = 250'

OWNER:
CITY OF SAMMAMISH
801 228TH AVENUE SE
SAMMAMISH, WA 98075
(425) 295-0500

MAYOR:
DON GEREND

DEPUTY MAYOR:
RAMIRO VALDERRAMA-ARAMAYO

COUNCIL:
KATHLEEN HUCKABAY
TOM ODELL
BOB KELLER
CHRISTIE MALCHOW
TOM HORNISH

CITY MANAGER:
LYMAN HOWARD

DIRECTOR OF PUBLIC WORKS:
JOHN CUNNINGHAM, PE

CITY ENGINEER:
ANDREW ZAGARS, PE

CITY PROJECT MANAGER:
TAWNI DALZIEL, PE

OCI PROJECT ENGINEER:
LAURA RUPPERT, PE

SURVEYOR:
AXIS SURVEY AND MAPPING

UTILITY CONTACTS:
COMCAST - JEFF BURRIS, 425-244-5088
PUGET SOUND ENERGY (POWER) - DEL JOHNSON, 425-766-6666
PUGET SOUND ENERGY (GAS) - JEANNE COLEMAN, 425-463-6550
- TOM LING, 425-449-7546
SAMMAMISH PLATEAU WATER AND SEWER DISTRICT - KYLE WONG, 425-295-3203
LAKE WASHINGTON SCHOOL DISTRICT (OVERHEAD CABLE) - MATT PALMER, 425-936-1222

DATUM/BASIS OF BEARINGS:
BACKGROUND INFORMATION SHOWN ON THESE PLANS ARE FROM THE FOLLOWING SOURCES:
- AXIS SURVEY AND MAPPING
  - NAD '83/'91 HORIZONTAL
  - NAVD '88 VERTICAL

RECOMMENDED FOR APPROVAL
PROJECT ENGINEER

APPROVED BY:
CITY ENGINEER
PUBLIC WORKS DIRECTOR

LAURA RUPPERT
STATE OF WASHINGTON
43848
REGISTERED PROFESSIONAL ENGINEER
3-9-16

811
Know what's below.
Call before you dig.

SCALE BARS INDICATE SCALE OF FULL-SIZE (22 X 34 INCH) DRAWINGS. FOR REDUCED SIZE DRAWINGS ADJUST SCALE ACCORDINGLY.

NO.	DATE	BY	CKD.	REVISION

City of Sammamish

OSBORN CONSULTING INCORPORATED
OSBORN CONSULTING, INC.
1800 112th Ave. NE, Suite 220E Ph (425) 451-4009
Bellevue, WA. 98004 Fax (425) 451-4901

DESIGNED BY: LCR
DRAWN BY: RDH
CHECKED BY: LAT
DATE: FEB. 2016

INGLEWOOD HILL STORMWATER AND NON-MOTORIZED IMPROVEMENTS
COVER SHEET

10-140008
OCI PROJECT NO.

SHEET 1 OF 89

As-Builts

PLOTTING DATE: 3/9/2016 USER: Richard HermrBbE NAME: P:\10-140008 Inglewood Drainage\3 CADD\Sheets\P_10-140008_CVR.dwg

GENERAL NOTES:

1. ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH CITY OF SAMMAMISH STANDARDS AND THE 2016 EDITION OF WASHINGTON STATE STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION (WSDOT/APWA).
2. THE LOCATIONS OF ALL EXISTING UTILITIES SHOWN HEREON HAVE BEEN ESTABLISHED BY FIELD SURVEY OR OBTAINED FROM AVAILABLE RECORDS AND SHOULD THEREFORE BE CONSIDERED APPROXIMATE ONLY AND NOT NECESSARILY COMPLETE. IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO INDEPENDENTLY VERIFY THE ACCURACY OF ALL UTILITY LOCATIONS SHOWN, AND TO FURTHER DISCOVER AND AVOID ANY OTHER UTILITIES NOT SHOWN HEREON WHICH MAY BE AFFECTED BY THE IMPLEMENTATION OF THIS PLAN. IMMEDIATELY NOTIFY THE ENGINEER IF A CONFLICT EXISTS.
3. SURFACE RESTORATION OF EXISTING ASPHALT PAVEMENT SHALL BE AS REQUIRED BY THE CONTRACT PLANS AND SPECIFICATIONS.
4. CALL 1-800-424-5555, OR 811, 72 HOURS PRIOR TO CONSTRUCTION FOR UTILITY LOCATES.
5. MANHOLES, CATCH BASINS AND VAULTS ARE CONSIDERED TO BE PERMIT-REQUIRED CONFINED SPACES. ENTRY INTO THESE SPACES SHALL BE IN ACCORDANCE WITH CHAPTER 296-809 WAC.
6. BEFORE ANY CONSTRUCTION, A PRE-CONSTRUCTION MEETING MUST BE HELD BETWEEN THE CITY'S INSPECTOR, SAMMAMISH PLATEAU WATER AND SEWER DISTRICT AND THE CONTRACTOR'S CONSTRUCTION REPRESENTATIVE(S).
7. A COPY OF THESE APPROVED PLANS MUST BE ON THE JOB SITE WHENEVER CONSTRUCTION IS IN PROGRESS. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ANY OTHER REQUIRED OR RELATED PERMITS PRIOR TO BEGINNING CONSTRUCTION.
8. EAST LAKE SAMMAMISH PARKWAY NE AND NE INGLEWOOD HILL ROAD ARE CLASSIFIED AS MINOR ARTERIALS. LANE CLOSURES SHALL NOT BE ALLOWED DURING AM PEAK TRAFFIC (BEFORE 9AM) AND PM PEAK TRAFFIC (AFTER 4PM) MONDAYS THROUGH FRIDAYS.
9. LOCAL AND EMERGENCY VEHICLE ACCESS SHALL BE ALLOWED AT ALL TIMES. CONTRACTOR SHALL ALLOW LOCAL TRAFFIC DURING CONSTRUCTION.
10. APPROPRIATE TRAFFIC CONTROL AND SAFETY MEASURES SHALL BE PROVIDED. TRAFFIC CONTROL SHALL CONFORM TO THE PLAN SUBMITTED WITH THIS PERMIT. THE CITY RESERVES THE RIGHT TO ADJUST THE TRAFFIC CONTROL PLAN IF THE NEED ARISES.
11. SCHOOL BUSES SHALL BE TREATED AS EMERGENCY VEHICLES AND SHALL BE ALLOWED ACCESS WITHOUT DELAY.
12. THE WORKING HOURS OF CONSTRUCTION SHALL BE CONSISTENT WITH THE CITY'S MUNICIPAL CODE SMC 16.05.030:
    - MONDAY THROUGH FRIDAY: 7:00 A.M. TO 8:00 P.M.
    - SATURDAYS: 9:00 A.M. TO 6:00 P.M.
    - SUNDAYS: NO CONSTRUCTION
    - HOLIDAYS: NO CONSTRUCTION WILL BE ALLOWED ON THE FOLLOWING HOLIDAYS -NEW YEAR'S DAY, MEMORIAL DAY, INDEPENDENCE DAY, LABOR DAY, THANKSGIVING DAY, AND CHRISTMAS DAY.

    NO VARIATIONS TO THESE HOURS WILL BE PERMITTED, UNLESS APPROVED BY THE CITY OF SAMMAMISH CITY MANAGER OR MANAGER'S DESIGNEE.
13. SATURDAY WORK SHALL BE REQUESTED NO LATER THAN 12:00 NOON ON PREVIOUS THURSDAY.
14. MINIMUM 10-FT WIDE TRAVEL LANES SHALL BE PROVIDED, UNLESS APPROVED BY THE CITY OF SAMMAMISH.
15. TOTAL ROAD CLOSURE SHALL NOT BE ALLOWED.
16. TRENCHING IN EXISTING PAVEMENT SHALL HAVE NO MORE THAN 200-FT OF STEEL PLATES ON ROADWAY. ALL TRENCHING BEHIND STEEL PLATES SHALL BE TOPPED OFF WITH A MINIMUM OF 2-INCH ATB, OR STREET MIX, AS TRENCH IS BACKFILLED. NO COLD MIX ASPHALT SHALL BE ALLOWED. ALL MATERIAL SHALL BE TAKEN OUT BEFORE FINAL PATCHING.
17. ALL NEW AND RELOCATED SIGNS REQUIRED IN THE PUBLIC RIGHTS-OF-WAY MUST BE INSTALLED AT THE LOCATION DIRECTED BY THE CITY OF SAMMAMISH TRAFFIC ENGINEER AFTER FIELD REVIEW OF IMPROVEMENTS. CONTRACTOR SHALL CONTACT THE PUBLIC WORKS INSPECTOR TO INITIATE SIGNAGE INSTALLATION A MINIMUM OF SIX (6) WEEKS PRIOR TO SCHEDULED INSTALLATION. TEMPORARY STREET SIGNS ARE REQUIRED FOR EMERGENCY VEHICLE ACCESS.
18. EXISTING STREET SIGNS REPLACED BY PROJECT SHALL BE REMOVED OFF SITE AT THE CONTRACTOR'S EXPENSE.
19. EXISTING STREETS SIGNS RELOCATED BY PROJECT SHALL BE PROTECTED UNTIL PROJECT FINAL ACCEPTANCE.

GENERAL NOTES (SPECIFIC TO WORK WITHIN THE SHORELINE BUFFER)

1. THE CONSTRUCTION WORK ACTIVITIES SHOWN ON THE PLANS SHALL BE SEQUENCED AND PERFORMED IN A MANNER THAT MINIMIZES IMPACTS TO SURFACE WATERS, SENSITIVE AREAS, EXISTING VEGETATION, THE CONSTRUCTION WORK SITE, AND ADJACENT PROPERTIES AND PUBLIC INFRASTRUCTURE.
2. ONLY ESSENTIAL EQUIPMENT SHALL BE ALLOWED IN THE CONSTRUCTION WORK SITE.
3. NO EQUIPMENT IS AT ANY TIME ALLOWED WITHIN THE WETLAND OR BELOW THE ORDINARY HIGH WATER MARK (OHWM). WEED REMOVAL AND RESTORATION PLANTING WITHIN THE WETLAND OR BELOW THE OHWM, IF ANY, SHALL BE PERFORMED BY HAND.
4. IF EQUIPMENT OR CONSTRUCTION VEHICLES ARE USED TO WORK WITHIN THE BUFFER, ALL ACCUMULATED SOIL OR DEBRIS ON EQUIPMENT SHALL BE REMOVED FROM THE DRIVE MECHANICS (WHEELS, TRUCKS, TIRES, ETC.) AND UNDERCARRIAGE OF EQUIPMENT PRIOR TO ITS WORKING WITHIN THE BUFFER.

TEMPORARY EROSION AND SEDIMENT CONTROL (TESC) GENERAL NOTES:

1. THE TESC PLANS ARE NOT CONFIRMATION OF OTHER DESIGN ELEMENTS THAT MAY ALSO BE SHOWN ON THE PLANS. APPROVAL IS SPECIFIC TO THE TESC ELEMENTS. ONLY TESC ELEMENTS SHALL BE CONSTRUCTED OFF THE TESC PLANS.
2. THIS TESC PLAN IS DESIGNED BASED ON THE KNOWN SITE CONDITIONS AND IS PROVIDED FOR PLANNING PURPOSES. THE CONTRACTOR IS RESPONSIBLE FOR PREPARING AND SUBMITTING FOR APPROVAL A STORMWATER POLLUTION PREVENTION PLAN (SWPPP) AND UPDATED TESC PLAN BASED ON THEIR CONSTRUCTION MEANS AND METHODS AND STAGING PLANS. NO EARTH DISTURBING ACTIVITY SHALL OCCUR PRIOR TO APPROVAL OF THESE PLANS.
3. THE SWPPP AND UPDATED TESC PLANS SHALL BE KEPT ON-SITE AT ALL TIMES.
4. THE IMPLEMENTATION OF THE UPDATED TESC PLANS AND BEST MANAGEMENT PRACTICES (BMPS) INCLUDING THE CONSTRUCTION, MAINTENANCE, REPLACEMENT, AND UPGRADING OF THESE BMPS IS THE RESPONSIBILITY OF THE CONTRACTOR UNTIL ALL CONSTRUCTION IS COMPLETED AND APPROVED BY THE ENGINEER.
5. THE BMPS SHOWN ON THIS PLAN MUST BE CONSTRUCTED IN CONJUNCTION WITH ALL CLEARING AND GRADING ACTIVITIES, AND IN SUCH A MANNER AS TO ENSURE THAT SEDIMENT AND SEDIMENT LADEN WATER DOES NOT ENTER THE DRAINAGE SYSTEM, ROADWAY, OR VIOLATE APPLICABLE WATER STANDARDS SPECIFIED IN THE PROJECT PERMIT.
6. THE CONTRACTOR SHALL USE PROPER TESC PRACTICES ON THE CONSTRUCTION SITE AND ADJACENT CONSTRUCTION STAGING AREAS TO PREVENT EROSION BOTH IN AND DOWNHILL OF DISTURBED AREAS, AND TO PREVENT THE DISCHARGE OF UPLAND SEDIMENT OR SEDIMENT LADEN WATER INTO THE DRAINAGE SYSTEMS, OR VIOLATE APPLICABLE WATER STANDARDS SPECIFIED IN THE PROJECT PERMIT.
7. THE BMPS SHOWN ON THIS PLAN ARE THE MINIMUM REQUIREMENTS FOR ANTICIPATED SITE CONDITIONS. DURING THE CONSTRUCTION PERIOD, THESE BMPS SHALL BE UPGRADED (E.G. ADDITIONAL STORM DRAIN INLET PROTECTION, RELOCATION OF OR ADDITIONAL TEMPORARY SILT FENCES OR STRAW WATTLES, ETC.) AS NEEDED TO PREVENT SEDIMENT AND SEDIMENT LADEN WATER FROM ENTERING THE DRAINAGE SYSTEM OR OFF-SITE AREAS.
8. CLEARING LIMITS SHALL BE CLEARLY DELINEATED ON THE SITE BY HIGH VISIBILITY FENCE, AS SHOWN IN THE PLANS. THE CONTRACTOR SHALL NOT DISTURB ANY AREA BEYOND THE CLEARING LIMIT FENCE. THE CLEARING LIMIT FENCE SHALL BE INSTALLED PRIOR TO ANY CLEARING AND GRADING ACTIVITIES. THE CLEARING LIMITS SHALL BE MAINTAINED BY THE CONTRACTOR FOR THE DURATION OF CONSTRUCTION.
9. CONTRACTOR SHALL INSTALL STABILIZED CONSTRUCTION ENTRANCES PER WSDOT STANDARD PLAN NO. I-80.10-01 AT THE BEGINNING OF CONSTRUCTION ON ALL UNSURFACED CONSTRUCTION ROADS OR STAGING AREAS WHERE THE CONSTRUCTION ROAD EXITS ONTO PAVED ROADS. THE STABILIZED CONSTRUCTION ENTRANCES SHALL BE MAINTAINED FOR THE DURATION OF THE PROJECT. ADDITIONAL MEASURES MAY BE REQUIRED TO ENSURE THAT ALL PAVED AREAS ARE KEPT CLEAN FOR THE DURATION OF THE PROJECT.
10. THE CONTRACTOR SHALL ENSURE LOCAL ROADS AND OTHER PAVED AREAS ADJACENT TO THE SITE ARE FREE OF SEDIMENT AND CONSTRUCTION DEBRIS AT THE END OF EACH WORK DAY.
11. INSTALL STORM DRAIN INLET PROTECTION ON NEW AND EXISTING CATCH BASINS AT LOCATIONS SHOWN ON THE PLANS PRIOR TO ANY CLEARING AND GRADING ACTIVITIES. STORM DRAIN INLET PROTECTION SHOULD BE INSTALLED ON ALL CATCH BASINS WHICH ARE LIKELY TO RECEIVE RUNOFF FROM THE DISTURBED AREAS DURING CONSTRUCTION. THE CONTRACTOR SHALL ADD ADDITIONAL STORM DRAIN INLET PROTECTION AS NECESSARY.
12. STORM DRAIN INLET PROTECTION SHALL BE CLEANED OR REMOVED AND REPLACED WHEN SEDIMENT HAS FILLED UP TO ONE-THIRD THE AVAILABLE STORAGE. DAILY INSPECTION SHALL BE REQUIRED.
13. ALL STORMWATER CATCH BASINS, STRUCTURES, AND CONVEYANCE LINES SHALL BE CLEANED PRIOR TO PROJECT COMPLETION. THE CLEANING OPERATION SHALL NOT FLUSH SEDIMENT LADEN WATER INTO THE DOWNSTREAM SYSTEM.
14. BMP INSPECTIONS SHALL BE CONDUCTED AT LEAST ONCE EVERY CALENDAR WEEK AND WITHIN 24 HOURS FOLLOWING ANY DISCHARGE FROM THE SITE. TEMPORARY STABILIZED SITES SHALL BE INSPECTED AND MAINTAINED A MINIMUM OF ONCE EVERY MONTH.
15. ANY AREAS OF EXPOSED OR UNWORKED SOILS, INCLUDING ROADWAY EMBANKMENT, THAT WILL NOT BE DISTURBED FOR TWO (2) CONSECUTIVE DAYS DURING THE WET SEASON (OCTOBER 1 THROUGH APRIL 30) OR SEVEN (7) DAYS DURING THE DRY SEASON (MAY 1 THROUGH SEPTEMBER 30), SHALL BE COVERED BY ONE OF THE FOLLOWING APPROVED TESC COVER MEASURES: PLASTIC COVERING, STRAW, SEEDING, MULCHING, TOP SOIL, OR OTHER APPROVED MATERIAL.
16. WHERE STRAW MULCH FOR TEMPORARY COVER IS INSTALLED, IT SHALL BE APPLIED AT A MINIMUM THICKNESS OF TWO (2) INCHES.
17. WHERE SEEDING AND SODDING IS USED FOR TEMPORARY COVER FOR UNWORKED OR EXPOSED SOILS, WSDOT SPECIFICATION 8-02.3(1) RESPONSIBILITY DURING CONSTRUCTION REQUIREMENT ABOUT MAINTENANCE SHALL BE FOLLOWED.
18. INSTALL EROSION CONTROL BLANKETS ON ALL FINISHED GRADE SLOPES 3 HORIZONTAL TO 1 VERTICAL AND STEEPER.
19. THE CONTRACTOR SHALL PREPARE A COMPLETE SPILL PREVENTION, CONTROL, AND COUNTERMEASURES (SPCC) PLAN.
20. WASHOUT OF CONSTRUCTION EQUIPMENT WILL BE COMPLETED ACCORDING TO THE SPCC PLAN.
21. THE CONTRACTOR SHALL NOT DISCHARGE ANY CLEANING SOLVENTS OR CHEMICALS UTILIZED FOR TOOL OR EQUIPMENT CLEANING TO THE GROUND. REFUELING OF EQUIPMENT WILL BE CONDUCTED AWAY FROM THE DRAINAGE FACILITIES AND DONE IN SUCH A MANNER AS TO PREVENT SPILLS FROM ENTERING THE GROUNDWATER OR WATER BODIES.
22. THE CONTRACTOR SHALL TAKE EXTREME CARE TO PREVENT ANY PETROLEUM PRODUCTS, HYDRAULIC FLUIDS, CHEMICALS OR OTHER TOXIC OR DELETERIOUS MATERIALS FROM ENTERING OR LEACHING FROM EQUIPMENT OR SUPPLIES USED DURING CONSTRUCTION INTO GROUNDWATER, WATER BODIES OR SENSITIVE AREAS.
23. THE CONTRACTOR SHALL NOT DISCHARGE TURBID WATER GENERATED FROM CONSTRUCTION ACTIVITIES DIRECTLY TO ANY STREAM, LAKE, STORMWATER SYSTEM INLETS, OR DRAINAGE DITCHES BEFORE THE SOLIDS HAVE SETTLED OUT OF THE WATER AND WATER QUALITY PARAMETERS ARE MET. WATER QUALITY PARAMETERS ARE SPECIFIED IN THE PROJECT PERMITS.
24. REMOVE ALL CLEARING LIMIT FENCES, TEMPORARY SILT FENCES, STORM DRAIN INLET PROTECTIONS, AND OTHER TEMPORARY EROSION AND SEDIMENT CONTROL FACILITIES AT COMPLETION OF CONSTRUCTION UNLESS DIRECTED OTHERWISE BY THE ENGINEER.

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1 WORK TO BE CONSTRUCTED UNDER SEPARATE CONTRACT

LAURA RUPPERT STATE OF WASHINGTON 43848 REGISTERED PROFESSIONAL ENGINEER

4/20/16

SCALE BARS INDICATE SCALE OF FULL-SIZE (22 X 34 INCH) DRAWINGS. FOR REDUCED SIZE DRAWINGS ADJUST SCALE ACCORDINGLY.

NO.	DATE	BY	CKD.	REVISION
1	3/21/2016	RDH	LCR	ADDENDUM #1 REVISIONS

City of Sammamish Washington

OSBORN CONSULTING INCORPORATED

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DESIGNED BY: LCR
DRAWN BY: RDH
CHECKED BY: LAT
DATE: FEB. 2016

INGLEWOOD HILL STORMWATER AND NON-MOTORIZED IMPROVEMENTS

SHEET INDEX AND GENERAL NOTES

10-140008
OCI PROJECT NO.

SHEET 2 OF 89

PLOTTING DATE: 3/24/2016 USER: Travis FranklinFILE NAME: P:\10-140008 Inglewood Drainage\3 CADD\Sheets\P_10-140008_CVR.dwg

CHANNELIZATION SYMBOLS

SYMBOL EXIST.	SYMBOL PROP.	DESCRIPTION
		BIKE LANE
		RIGHT TURN ARROW
		LEFT TURN ARROW
		THROUGH ARROW
		SIGN

SIGNALIZATION SYMBOLS

SYMBOL EXIST.	SYMBOL PROP.	DESCRIPTION
		PEDESTRIAN DOUBLE PUSHBUTTON
		CROSSWALK POST SINGLE BUTTON
		SIGNAL CONTROLLER
		SIGNAL LOAD CENTER
		STREET LIGHT ASSEMBLY
		SIGNAL VAULT

WATER SYMBOLS

SYMBOL EXIST.	SYMBOL PROP.	DESCRIPTION
		FIRE HYDRANT
	DCV	DETECTOR CHECK VALVE
		FIRE DEPARTMENT CONNECTOR
		HOSE BIB
	IRV	IRRIGATION CONTROL VALVE
	SPV	SPRINKLER VALVE
		MONITOR WELL
		POST INDICATOR VALVE
		SPRINKLER HEAD
		WATER BLOW OFF
		WATER METER
		WATER STAND PIPE
		WATER VALVE
		AIR RELIEF VALVE
	W	WATER VAULT
		WATER INDICATOR POST
	W	WATER MANHOLE
	W	WATER WELL

DEMOLITION/TESC SYMBOLS

SYMBOL PROP.	DESCRIPTION
	STORM DRAIN INLET PROTECTION
	TREE PROTECTION PER DETAIL ON SHEET 13.
	TREE REMOVAL

TOPO SYMBOLS

SYMBOL EXIST.	SYMBOL PROP.	DESCRIPTION
		MAIL BOX
		SHRUB
		YARD LIGHT
		BOLLARD
	PST	POST
		WETLAND FLAG
		SIGN POST
		SOIL LOG/TEST PIT
		EDGE OF ASPHALT PAVING
	LCH	LOCAL HIGH POINT
	LCL	LOCAL LOW POINT
		HVAC
	OFC	OIL TANK FILL CAP
	GFC	GAS TANK FILL CAP
		FUEL PUMP
12"AP		APPLE
12"A		ALDER
12"B		BIRCH
12"C		CEDAR
12"CN		CHESTNUT
12"COT		COTTONWOOD
12"CFR		CONIFER
12"CY		CHERRY
12"D		DECIDUOUS
12"DW		DOGWOOD
12"E		ELM
12"FB		FILBERT
12"F		FIR
12"FR		FRUIT
12"HW		HAWTHORNE
12"H		HEMLOCK
12"HO		HOLLY
12"J		JUNIPER
12"L		LARCH
12"LL		LAUREL
12"M		MAPLE
12"MA		MADRONA
12"MG		MAGNOLIA
12"O		OAK
12"P		PINE
12"PL		PLUM
12"PR		POPLAR
12"R		REDWOOD
12"SQ		SEQUOIA
12"S		SPRUCE
12"VM		VINE MAPLE
12"W		WILLOW
		STUMP

GAS/POWER/TELEPHONE SYMBOLS

SYMBOL EXIST.	SYMBOL PROP.	DESCRIPTION
		GAS METER
		GAS VALVE
	GIP	GAS RISER
		GAS MANHOLE
		PAD MOUNTED TRANSFORMER
		POWER VAULT
		TRANSMISSION TOWER
	PIP	POWER INDICATOR POST
		POWER STUB
		POWER JUNCTION BOX
		POWER METER
		UTILITY POLE W/ LIGHT
		UTILITY POLE W/ LIGHT & UNDERGROUND CONDUIT
		UTILITY POLE W/ LIGHT & TRANSFORMER
		UTILITY POLE W/ LIGHT, UNDERGROUND CONDUIT & TRANSFORMER
		POWER POLE W/ TRANSFORMER
		POWER POLE W/UNDERGROUND CONDUIT
		POWER POLE W/ TRANSFORMER & UNDERGROUND CONDUIT
		TRAFFIC SIGNAL POLE
		TV RISER
		UTILITY POLE
		UTILITY POLE ANCHOR
		TELEPHONE RISER
	T	TELEPHONE VAULT
		TELEPHONE POLE
	T	TELEPHONE MANHOLE
	TIP	TELECOMMUNICATIONS INDICATOR POST
	TS	TELECOMMUNICATIONS STUB
	TE	TELEPHONE BOOTH
		TELECOMMUNICATIONS RISER
		TELECOMMUNICATIONS JUNCTION BOX
	F	FIBER OPTICS MANHOLE
	HH	FIBER OPTICS HANDHOLE

SURVEY SYMBOLS

SYMBOL THEOR./ EXIST.	SYMBOL FOUND/ PROP.	DESCRIPTION
		SET PK/MAG NAIL
		FOUND PK/MAG NAIL
		SET BENCHMARK
		BLOCK CORNER
		FOUND IRON PIPE
		FOUND MONUMENT IN CASE
		CALCULATED MONUMENT LOCATION
		FOUND SURFACE MONUMENT
		SET HUB AND TACK
		FOUND HUB AND TACK
		FOUND TACK IN LEAD
		FOUND REBAR
		SET REBAR
		SET REBAR AND CAP "AXIS 38011, 38479, 41957, 40094, 43347"
		FOUND REBAR AND CAP AS NOTED
		CENTER OF SECTION
		FOUND SECTION CORNER
		CALCULATED SECTION CORNER
		FOUND QUARTER CORNER
		CALCULATED QUARTER CORNER
		SIXTEENTH CORNER
		CLOSING CORNER
	MC	MEANDER CORNER
	WC	WITNESS CORNER

SANITARY/STORM SEWER SYMBOLS

SYMBOL EXIST.	SYMBOL PROP.	DESCRIPTION
		CONCRETE INLET
		STORM DRAIN CATCH BASIN TYPE 2
		STORM DRAIN CATCH BASIN TYPE 2 LOCKING LID
		AREA DRAIN
		CULVERT END
		STORM DRAIN ARROW
	SD	STORM DRAIN CLEANOUT
		STORM DRAIN STUB
		STORM/SEWER MANHOLE
		SANITARY SEWER STUB
		SANITARY SEWER MANHOLE
	SS	SAN SEWER CELAN OUT
		SAN SEWER ARROW
		CULVERT END PROTECTION
		RAINGARDEN FLOW DIRECTION
		MODULAR WETLAND SYSTEM

HATCH PATTERNS

PATTERN EXIST.	PATTERN PROP.	DESCRIPTION
		PLANNING BUTUMINOUS PAVEMENT PER WSDOT STANDARD SPECIFICATIONS SECTION 5-04.3
		STRUCTURE EXCAVATION CLASS B INCLUDING HAUL PER WSDOT STANDARD SPECIFICATIONS SECTION 2-029.
		ROADWAY EXCAVATION INCLUDING HAUL PER WSDOT STANDARD SPECIFICATIONS SECTION 2-03.
		CLEARING AND GRUBBING PER WSDOT STANDARD SPECIFICATIONS SECTION 2-01.
		CONCRETE PAVING
		ASPHALT PAVING
		ASPHALT GRIND AND OVERLAY
		BUILDINGS
		GRAVEL SURFACE
		WETLANDS
		40% OR GREATER SLOPE
		BRICK PAVING
		SIDEWALK

LINESTYLES

EXIST.	PROP.	DESCRIPTION
		WETLAND
		CHAIN LINK FENCE
		WOOD FENCE
		BARB WIRE FENCE
		HANDRAIL
		ROADWAY CENTERLINE
		RETAINING WALL
		CMU RETAINING WALL
		ROCKERY
		INTERMEDIATE CONTOUR
		INDEX CONTOUR
		DEPRESSION CONTOUR
	C	CUT LINE
	F	FILL LINE
		PROPERTY LINE
		SECTION
		PERM EASEMENT
		TEMPORARY EASEMENT
		RIGHT OF WAY
		CHAN STRIPE
		GUARD RAIL
UTS	UTS	BURRIED TRAFFIC SIGNAL
TS	TS	AERIAL TRAFFIC SIGNAL
INT	INT	INTERCONNECT
TV	TV	AERIAL TV
UTV	UTV	BURIED TV
OT	OT	AERIAL TELEPHONE
T	T	BURIED TELEPHONE
FO	FO	BURIED FIBER OPTICS
OP		AERIAL POWER
P	P	BURIED POWER
SD	SD	STORM DRAIN
		DITCH
G		GAS
SS	SS	SAN SEWER
STE	STE	STEAM
W		WATER
IRR	IRR	IRRIGATION
		SILT FENCE
	HVF	HIGH VISIBILITY FENCE
		SAWCUT
		REMOVAL OF STRUCTURES AND OBSTRUCTIONS
OP-OT		OVERHEAD POWER AND TELECOMMUNICATIONS
OFO	OFO	OVERHEAD FIBER OPTICS LINE
OFO-OP-OT		OVERHEAD FIBER OPTICS, POWER AND TELECOMMUNICATIONS LINE
D-S	D-S	STORM AND SANITARY SEWER LINE
FM	FM	FORCE MAIN SEWER LINE
		BUILDING OVERHANG
		ROOF OVERHANG/EAVE
		EDGE OF WATER
		CURB

LAURA RUPPERT
STATE OF WASHINGTON
43848
REGISTERED PROFESSIONAL ENGINEER
4/20/16

SCALE BARS INDICATE SCALE OF FULL-SIZE (22 X 34 INCH) DRAWINGS. FOR REDUCED SIZE DRAWINGS ADJUST SCALE ACCORDINGLY.

NO.	DATE	BY	CKD.	REVISION

City of Sammamish Washington

OSBORN CONSULTING INCORPORATED

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DESIGNED BY: LCR
DRAWN BY: RDH
CHECKED BY: LAT
DATE: FEB. 2016

INGLEWOOD HILL STORMWATER AND NON-MOTORIZED IMPROVEMENTS
LEGEND, LINETYPES, AND ABBREVIATIONS

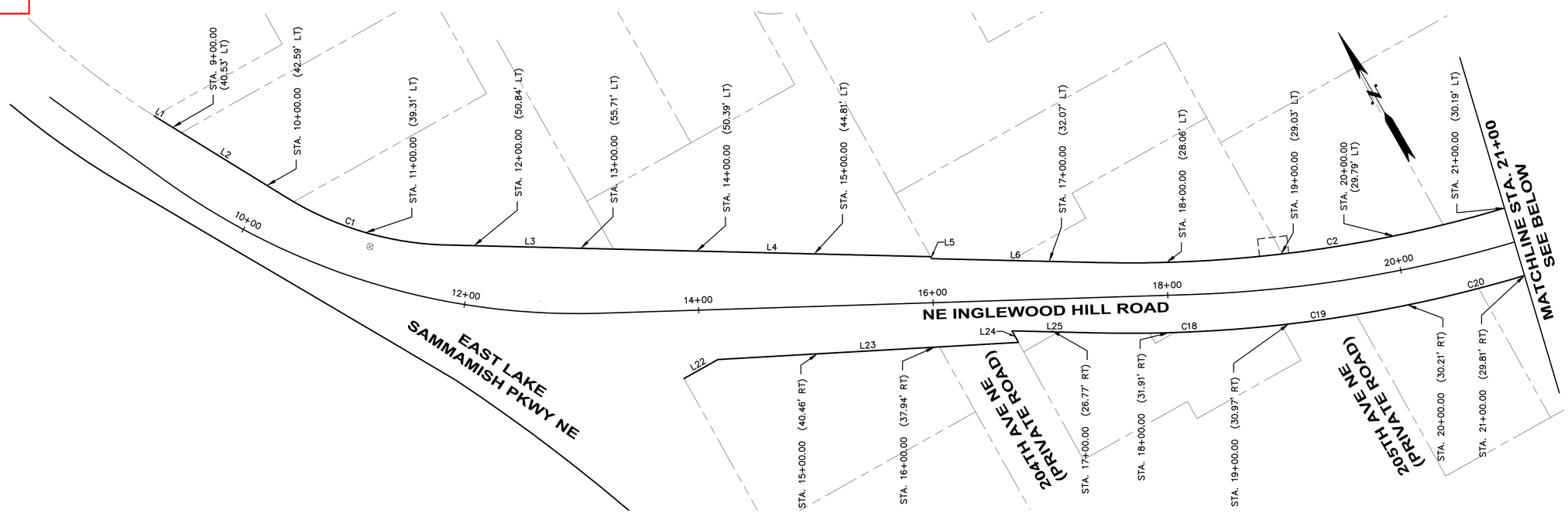
10-140008
OCI PROJECT NO.

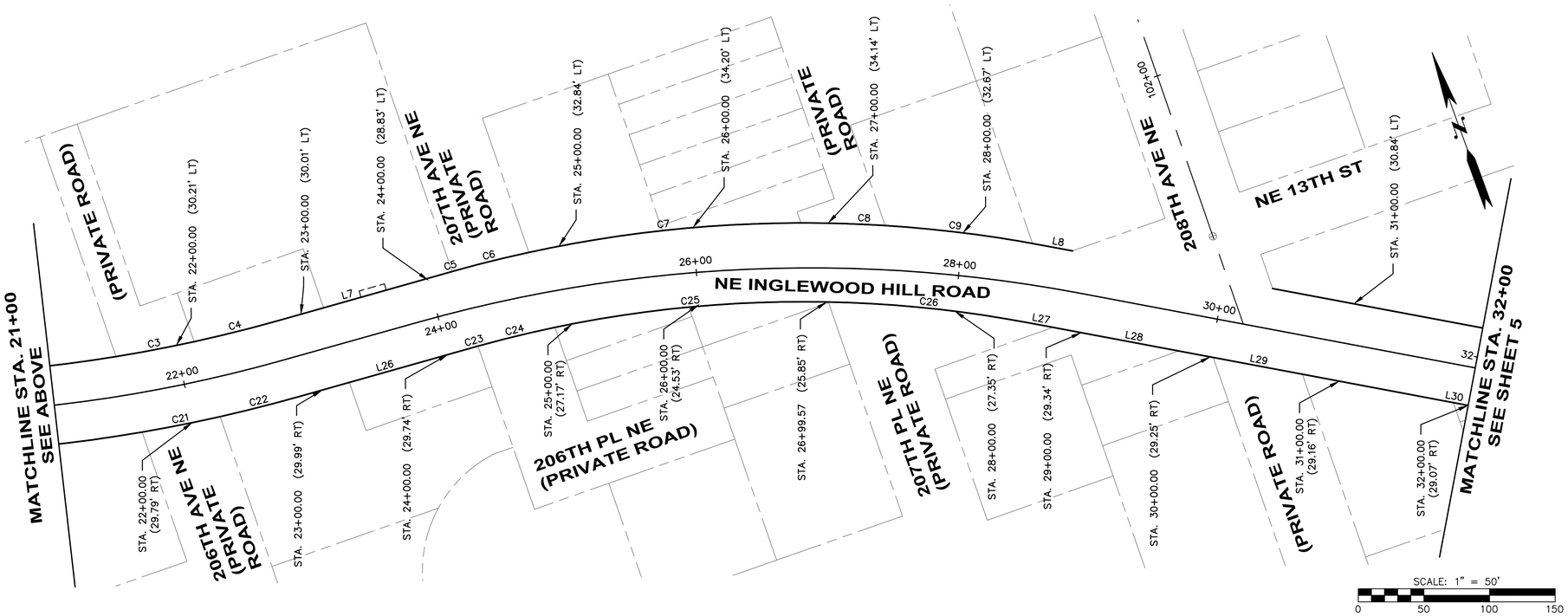
3 SHEET OF 89

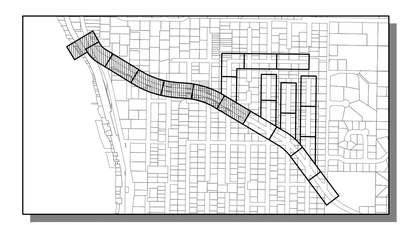
PLOTTING DATE: 3/24/2016 USER: Travis Franklin FILE NAME: P:\10-140008 Inglewood Drainage\3 CADD\Sheets\P_10-140008_CVR.dwg

RFI 001

SEC. 29 , T. 25 N., R. 6 E., W.M.







KEY MAP
SCALE: 1"=1000'

SCALE: 1" = 50'
0 50 100 150

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1	7/8/16	TNF	LR	RFI-001 VERTICAL DATUM

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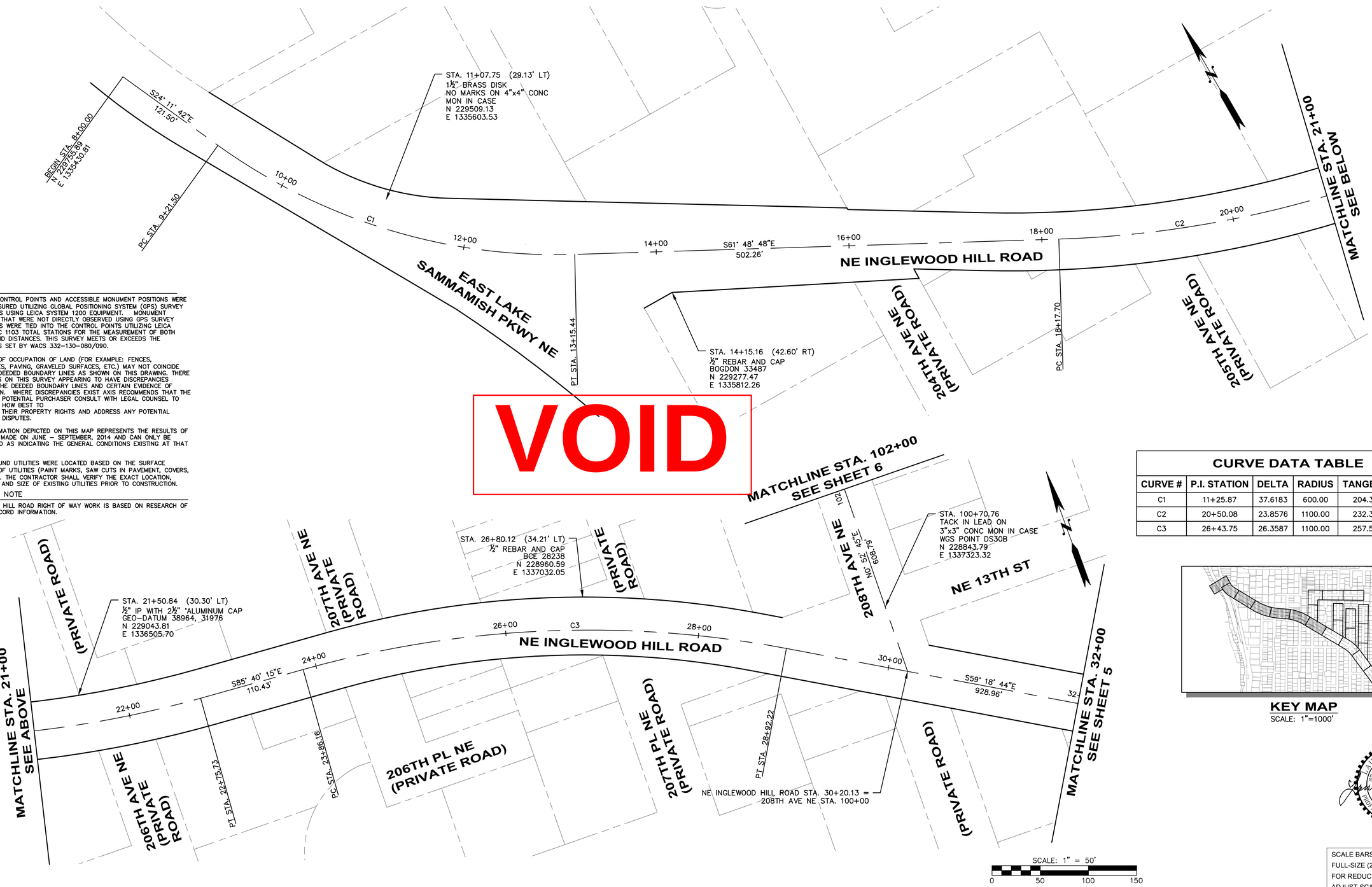
INGLEWOOD HILL STORMWATER AND NON-MOTORIZED IMPROVEMENTS
HORIZONTAL CONTROL
INGLEWOOD HILL ROAD

10-140008
OCI PROJECT NO.

SHEET 4 OF 89

PLOTTING DATE: 7/11/2016 USER: Travis FranklinFILE NAME: P:\10-140008 Inglewood Drainage\3 CADD\Figures\RFI's\ROW.dwg

SEC. 29 , T. 25 N., R. 6 E., W.M.



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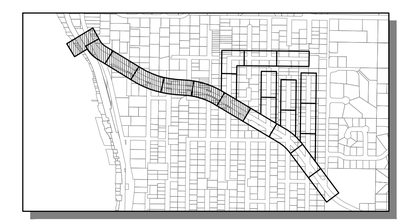
GENERAL NOTE

INGLEWOOD HILL ROAD RIGHT OF WAY WORK IS BASED ON RESEARCH OF PUBLIC RECORD INFORMATION.

CURVE DATA TABLE

CURVE #	P.I. STATION	DELTA	RADIUS	TANGENT	LENGTH
C1	11+25.87	37.6183	600.00	204.36	393.94
C2	20+50.08	23.8576	1100.00	232.38	458.03
C3	26+43.75	26.3587	1100.00	257.58	506.05



KEY MAP
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LAURA RUPPERT
STATE OF WASHINGTON
43848
REGISTERED PROFESSIONAL ENGINEER
4/20/16

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INGLEWOOD HILL STORMWATER AND NON-MOTORIZED IMPROVEMENTS
HORIZONTAL CONTROL
INGLEWOOD HILL ROAD

10-140008
OCI PROJECT NO.

SHEET 4 OF 89

PLOTTING DATE: 4/20/2016 USER: Travis FranklinFILE NAME: P:\10-140008 Inglewood Drainage\3 CADD\Sheets\P_10-140008_HC.dwg

RFI 001

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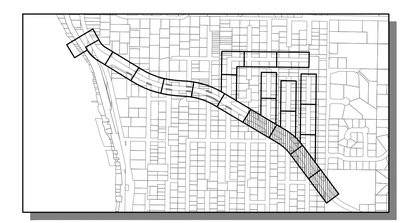

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INGLEWOOD HILL STORMWATER AND NON-MOTORIZED IMPROVEMENTS
HORIZONTAL CONTROL
INGLEWOOD HILL ROAD

10-140008
OCI PROJECT NO.

SHEET 5 OF 89

PLOTTING DATE: 7/11/2016 USER: Travis Franklin FILE NAME: P:\10-140008 Inglewood Drainage\3 CADD\Figures\RFI's\ROW.dwg

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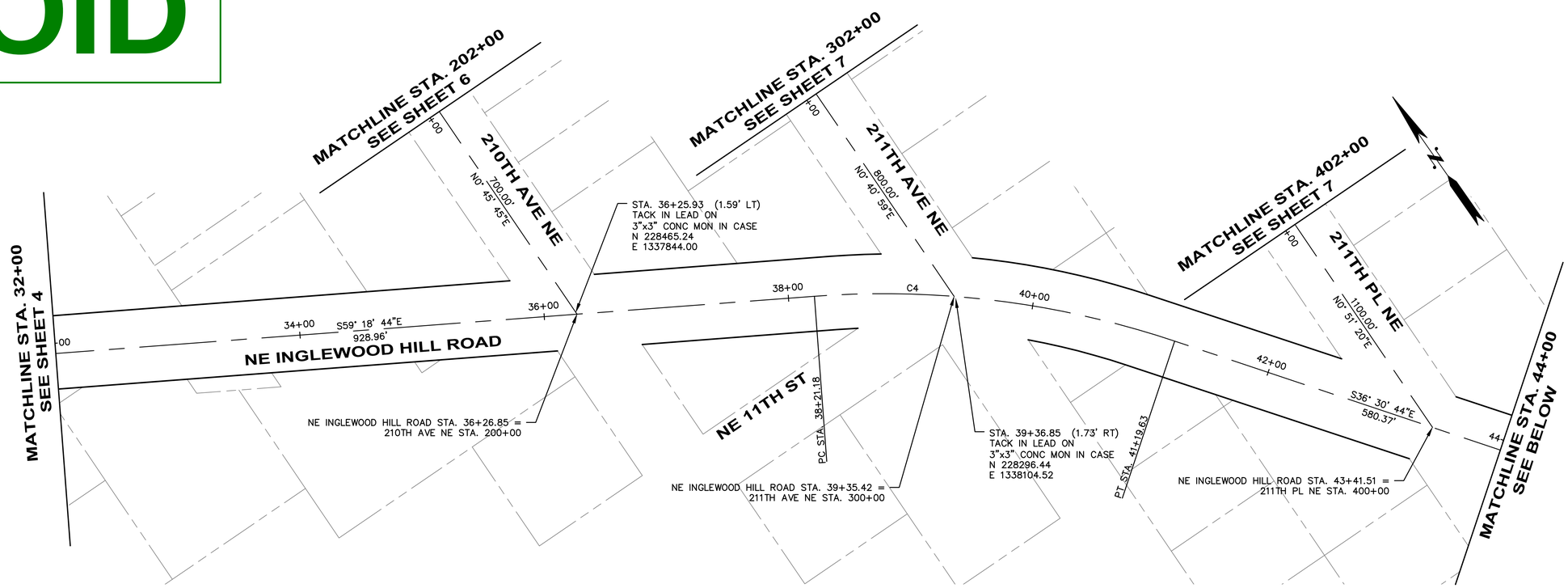
SEC. 29 , T. 25 N., R. 6 E., W.M.



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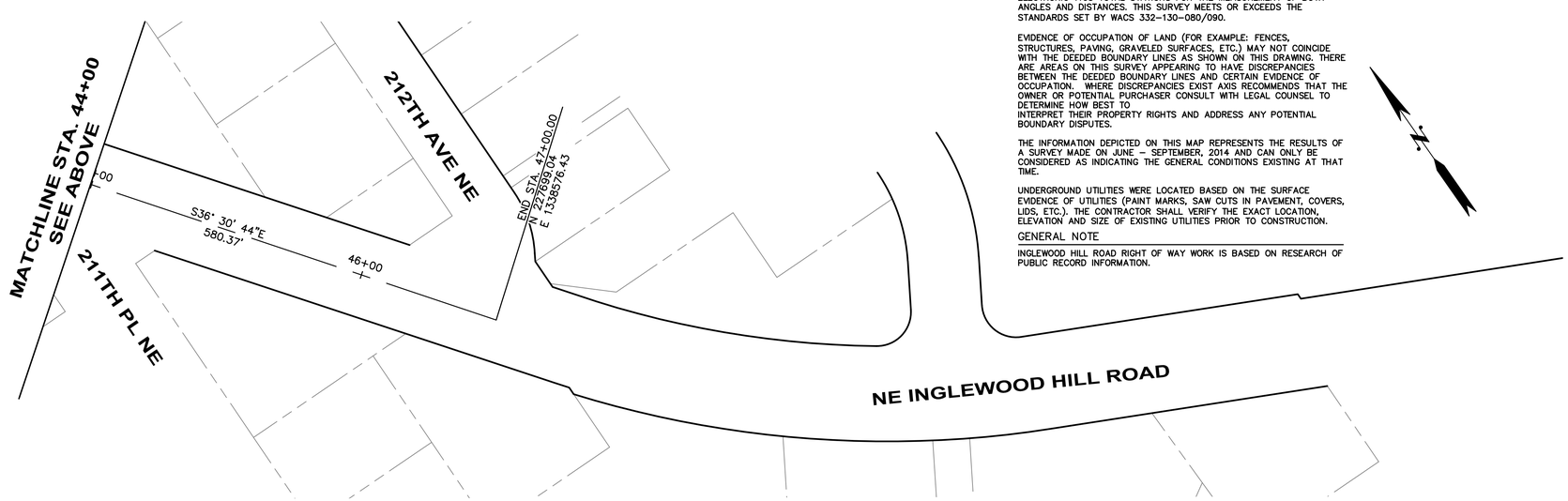
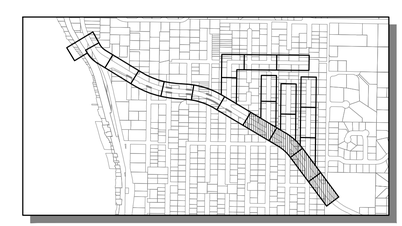
CURVE DATA TABLE

CURVE #	P.I. STATION	DELTA	RADIUS	TANGENT	LENGTH
C4	39+72.40	22.7999	750.00	151.23	298.45





KEY MAP
SCALE: 1"=1000'

LAURA RUPPERT
STATE OF WASHINGTON
43848
REGISTERED
PROFESSIONAL ENGINEER
4/20/16

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SCALE BARS INDICATE SCALE OF FULL-SIZE (22 X 34 INCH) DRAWINGS. FOR REDUCED SIZE DRAWINGS ADJUST SCALE ACCORDINGLY.

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INGLEWOOD HILL STORMWATER AND NON-MOTORIZED IMPROVEMENTS
HORIZONTAL CONTROL
INGLEWOOD HILL ROAD

10-140008
OCI PROJECT NO.

5 SHEET OF 89

PLOTTING DATE: 4/20/2016 USER: Travis Frankl FILE NAME: P:\10-140008 Inglewood Drainage\3 CADD\Sheets\P_10-140008_HC.dwg

RFI 10

Line Table

Line #	Length	Direction	Start Northing	Start Easting
L1	4.58	S28° 08' 34"E	229697.41	1335500.09
L2	128.02	S28° 20' 02"E	229693.36	1335502.25
L3	142.48	S58° 37' 02"E	229477.73	1335660.62
L4	270.35	S58° 37' 02"E	229403.54	1335782.26
L5	1.91	S1° 00' 17"W	229262.75	1336013.06
L6	142.58	S58° 39' 48"E	229260.84	1336013.02
L7	137.06	S85° 45' 48"E	229026.96	1336632.71
L8	23.82	S59° 21' 48"E	228882.04	1337198.57
L9	537.18	S59° 21' 48"E	228790.88	1337352.49
L10	193.79	S59° 21' 48"E	228481.88	1337874.22
L11	165.15	S36° 41' 48"E	228207.92	1338235.76
L12	273.57	S36° 41' 48"E	227996.57	1338393.28
L13	166.93	S0° 51' 51"W	227931.75	1338640.79
L14	5.81	S31° 17' 10"W	227721.95	1338625.56
L15	21.66	S0° 51' 51"W	227716.98	1338622.55
L16	32.42	S36° 40' 57"E	227695.33	1338622.22
L17	34.31	S31° 22' 40"W	227566.90	1338837.35
L18	34.31	S31° 22' 40"W	227540.86	1338880.04
L19	197.18	S63° 46' 56"E	227477.71	1338871.73
L20	3.86	S0° 52' 46"W	227390.60	1339048.62

Line Table

Line #	Length	Direction	Start Northing	Start Easting
L21	312.57	S63° 49' 48"E	227386.74	1339048.57
L22	33.22	S89° 19' 10"E	229277.86	1335779.05
L23	256.43	S63° 15' 26"E	229277.47	1335812.26
L24	11.20	N1° 00' 43"E	229162.08	1336041.27
L25	72.74	S58° 39' 48"E	229173.28	1336041.47
L26	137.06	S85° 45' 48"E	228967.13	1336628.28
L27	19.94	S59° 21' 48"E	228830.42	1337167.99
L28	124.14	S59° 21' 48"E	228820.26	1337185.15
L29	69.11	S59° 21' 48"E	228757.00	1337291.96
L30	234.05	S59° 21' 48"E	228721.78	1337351.42
L31	69.11	S59° 21' 48"E	228602.51	1337552.80
L32	234.15	S59° 21' 48"E	228567.29	1337612.26
L33	159.19	S59° 21' 48"E	228412.62	1337873.42
L34	243.19	S36° 41' 48"E	228172.06	1338187.65
L35	296.13	S36° 41' 48"E	227876.79	1338407.72
L36	5.65	S0° 51' 51"W	227630.67	1338591.24
L37	196.90	S63° 48' 28"E	227412.67	1338851.95

Curve Table

Curve #	Length	Radius	Delta	Chord Direction	Chord Length
C1	143.53	271.56	30° 17' 00"	S43° 28' 32"E	141.87
C2	400.70	1115.92	20° 34' 26"	S68° 57' 01"E	398.56
C3	60.64	1115.92	3° 06' 49"	S80° 47' 39"E	60.64
C4	66.46	1115.92	3° 24' 45"	S84° 03' 26"E	66.45
C5	0.16	984.98	0° 00' 35"	S85° 45' 31"E	0.16
C6	60.25	984.98	3° 30' 17"	S84° 00' 05"E	60.24
C7	208.84	984.98	12° 08' 54"	S76° 10' 30"E	208.45
C8	64.23	984.98	3° 44' 10"	S68° 13' 58"E	64.22
C9	120.36	984.98	7° 00' 04"	S62° 51' 50"E	120.28
C10	40.87	666.62	3° 30' 45"	S57° 36' 26"E	40.86
C11	148.15	666.62	12° 44' 00"	S43° 03' 49"E	147.84
C12	45.30	83.00	31° 16' 17"	S16° 29' 59"W	44.74
C13	200.26	682.70	16° 48' 25"	N45° 57' 10"W	199.54
C14	39.49	24.00	94° 15' 58"	S78° 30' 39"W	35.18
C15	66.54	125.00	30° 29' 54"	S16° 07' 43"W	65.75
C16	93.15	175.00	30° 29' 54"	S16° 07' 43"W	92.06
C17	39.49	24.00	94° 15' 58"	S15° 45' 19"E	35.18
C18	157.14	1175.92	7° 39' 23"	S62° 29' 30"E	157.02
C19	64.33	1175.92	3° 08' 03"	S67° 53' 13"E	64.32
C20	211.22	1175.92	10° 17' 29"	S74° 35' 59"E	210.93

Curve Table

Curve #	Length	Radius	Delta	Chord Direction	Chord Length
C21	60.58	1175.92	2° 57' 06"	S81° 13' 16"E	60.57
C22	62.93	1175.92	3° 03' 59"	S84° 13' 49"E	62.93
C23	3.68	924.98	0° 13' 41"	S85° 38' 58"E	3.68
C24	60.28	924.98	3° 44' 03"	S83° 40' 06"E	60.27
C25	209.65	924.98	12° 59' 12"	S75° 18' 29"E	209.21
C26	152.58	924.98	9° 27' 05"	S64° 05' 21"E	152.41
C27	17.44	606.62	1° 38' 49"	N58° 32' 24"W	17.44
C28	83.04	606.62	7° 50' 35"	S40° 37' 06"E	82.97
C29	10.88	746.20	0° 50' 07"	S37° 06' 52"E	10.88
C30	339.19	749.70	25° 55' 22"	S50° 50' 47"E	336.31

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0 50 100 150

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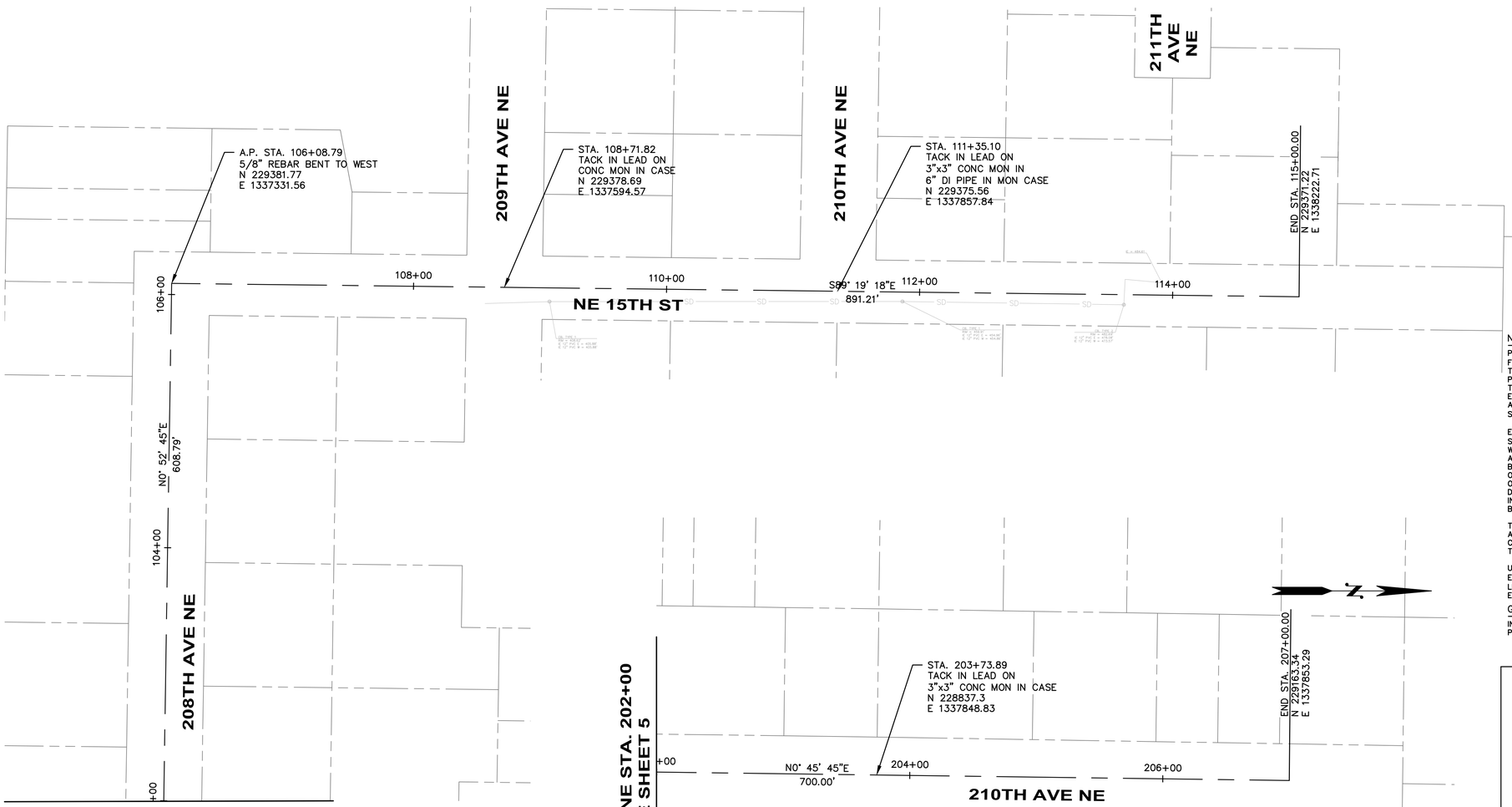
INGLEWOOD HILL STORMWATER AND NON-MOTORIZED IMPROVEMENTS
HORIZONTAL CONTROL
208TH AVE NE - 210TH AVE NE

10-140008
OCI PROJECT NO.

SHEET 6 OF 89

PLOTTING DATE: 7/11/2016 USER: Richard Herrmann FILE NAME: P:\10-140008 Inglewood Drainage\3 CADD\Figures\RFI's\ROW.dwg

SEC. 29 , T. 25 N., R. 6 E., W.M.



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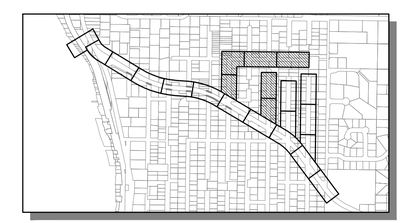
GENERAL NOTE

INGLEWOOD HILL ROAD RIGHT OF WAY WORK IS BASED ON RESEARCH OF PUBLIC RECORD INFORMATION.



KEY MAP
SCALE: 1"=1000'

LAURA RUPPERT
STATE OF WASHINGTON
43848
REGISTERED
PROFESSIONAL ENGINEER
4/20/16

SCALE: 1" = 50'
0 50 100 150

SCALE BARS INDICATE SCALE OF FULL-SIZE (22 X 34 INCH) DRAWINGS. FOR REDUCED SIZE DRAWINGS ADJUST SCALE ACCORDINGLY.

NO.	DATE	BY	CKD.	REVISION

City of Sammamish Washington

OSBORN CONSULTING INCORPORATED

OSBORN CONSULTING, INC.
1800 112th Ave. NE, Suite 220E Ph (425) 451-4009
Bellevue, WA. 98004 Fax (425) 451-4901

DESIGNED BY: LCR
DRAWN BY: RDH
CHECKED BY: LAT
DATE: FEB. 2016

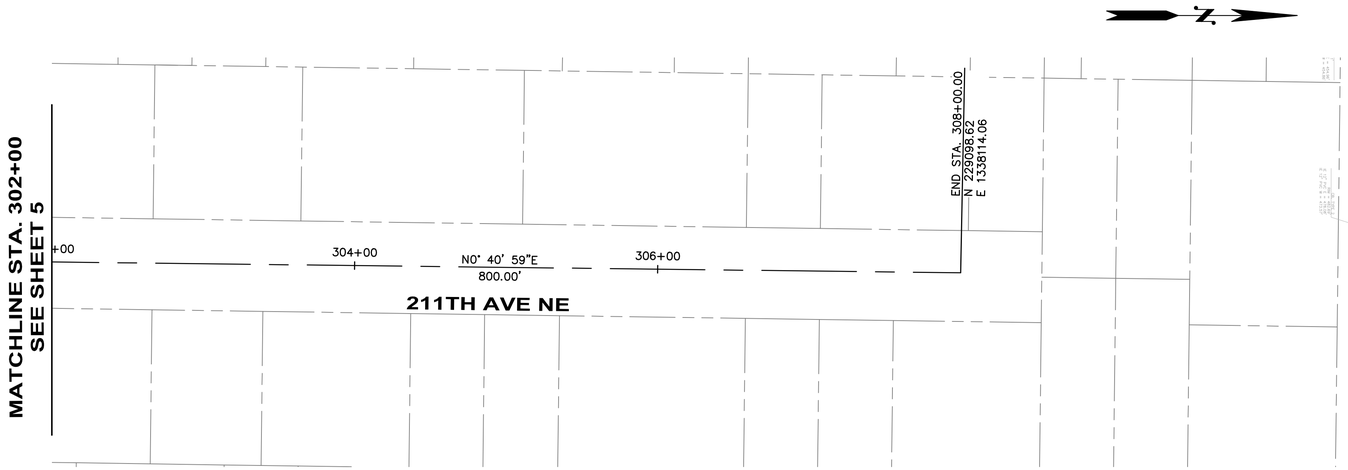
INGLEWOOD HILL STORMWATER AND NON-MOTORIZED IMPROVEMENTS
HORIZONTAL CONTROL
208TH AVE NE - 210TH AVE NE

10-140008
OCI PROJECT NO.

SHEET 6 OF 89

PLOTTING DATE: 4/20/2016 USER: Travis FranklinFILE NAME: P:\10-140008 Inglewood Drainage\3 CADD\Sheets\P_10-140008_HC.dwg

SEC. 29 , T. 25 N., R. 6 E., W.M.



NOTES

PRIMARY CONTROL POINTS AND ACCESSIBLE MONUMENT POSITIONS WERE FIELD MEASURED UTILIZING GLOBAL POSITIONING SYSTEM (GPS) SURVEY TECHNIQUES USING LEICA SYSTEM 1200 EQUIPMENT. MONUMENT POSITIONS THAT WERE NOT DIRECTLY OBSERVED USING GPS SURVEY TECHNIQUES WERE TIED INTO THE CONTROL POINTS UTILIZING LEICA ELECTRONIC 1103 TOTAL STATIONS FOR THE MEASUREMENT OF BOTH ANGLES AND DISTANCES. THIS SURVEY MEETS OR EXCEEDS THE STANDARDS SET BY WACS 332-130-080/090.

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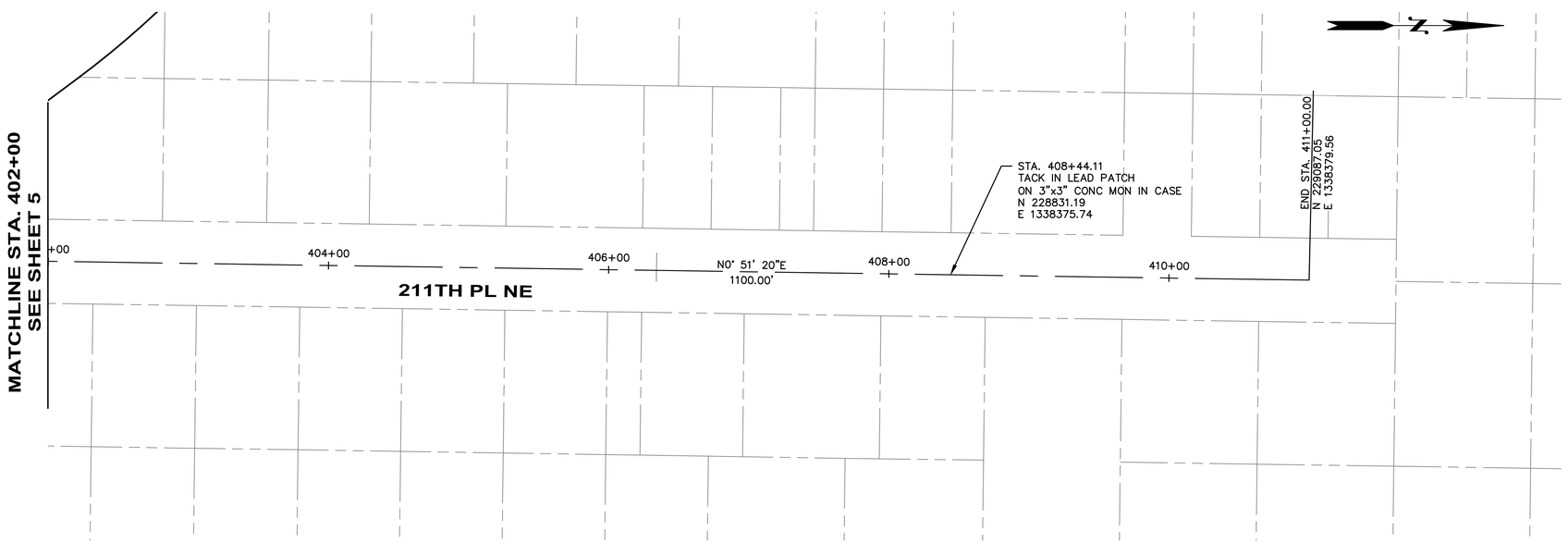

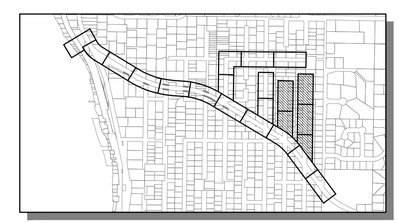

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INGLEWOOD HILL STORMWATER AND NON-MOTORIZED IMPROVEMENTS
HORIZONTAL CONTROL
211TH AVE NE - 211TH PL NE

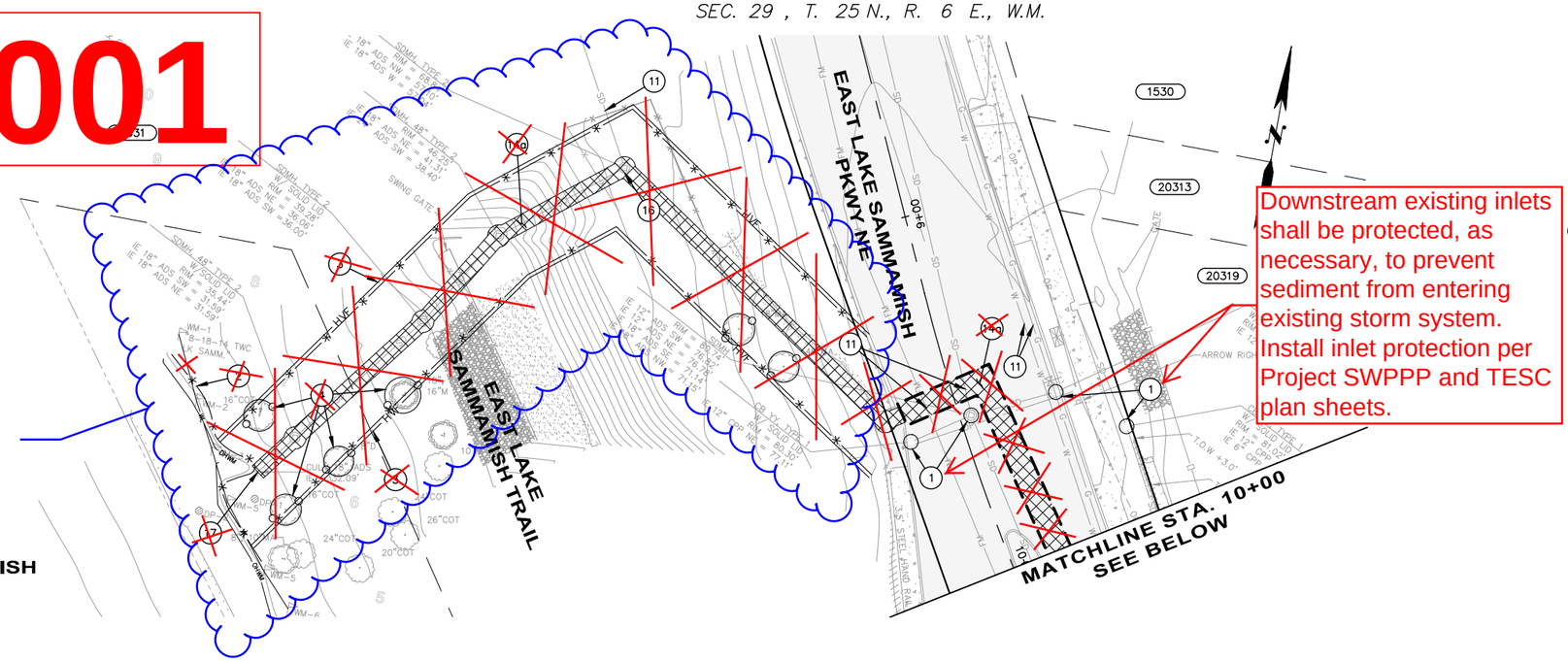
10-140008
OCI PROJECT NO.

7 SHEET OF 89

PLOTTING DATE: 4/20/2016 USER: Travis Franklin FILE NAME: P:\10-140008 Inglewood Drainage\3 CADD\Sheets\P_10-140008_HC.dwg

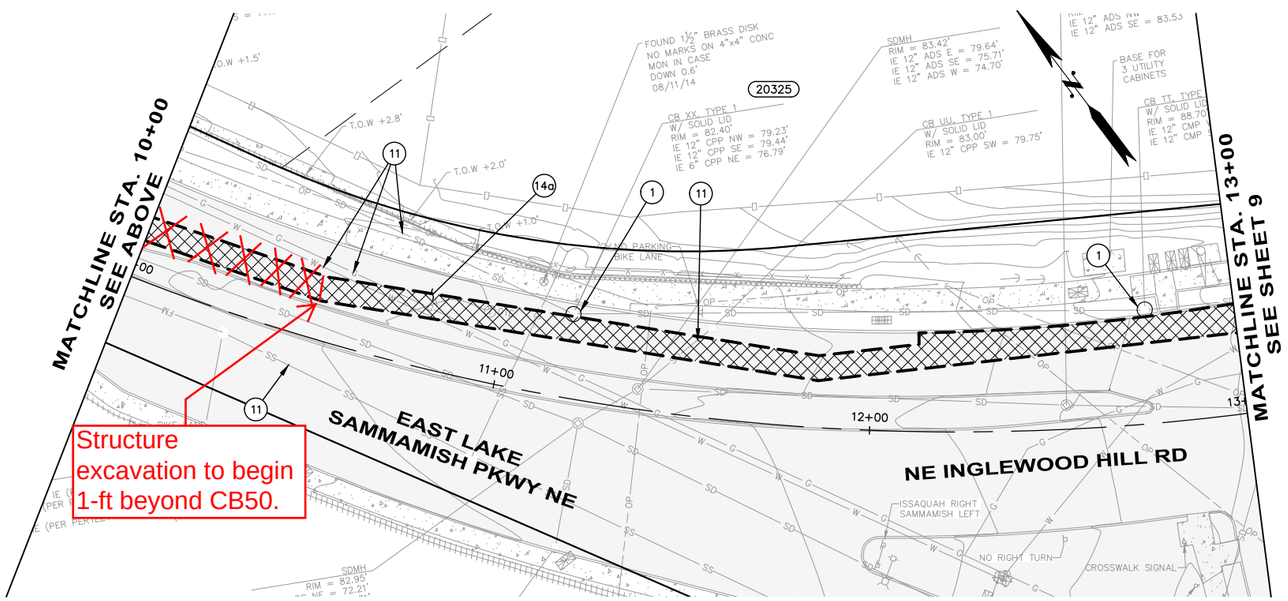
FD 001

SEC. 29 , T. 25 N., R. 6 E., W.M.



ADDENDUM 2

Downstream existing inlets shall be protected, as necessary, to prevent sediment from entering existing storm system. Install inlet protection per Project SWPPP and TESC plan sheets.



Structure excavation to begin 1-ft beyond CB50.

GENERAL NOTES

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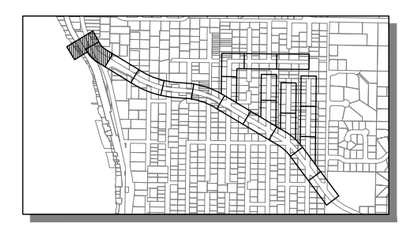

KEY MAP
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SCALE: 1" = 20'
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4/20/16

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INGLEWOOD HILL STORMWATER AND NON-MOTORIZED IMPROVEMENTS
DEMOLITION AND TESC
BEGINNING TO STA. 13+00

10-140008
OCI PROJECT NO.

8 SHEET OF 89

PLOTTING DATE: 4/20/2016 USER: Travis FranklinFILE NAME: P:\10-140008 Inglewood Drainage\3 CADD\Sheets\P_10-140008_TESC01.dwg

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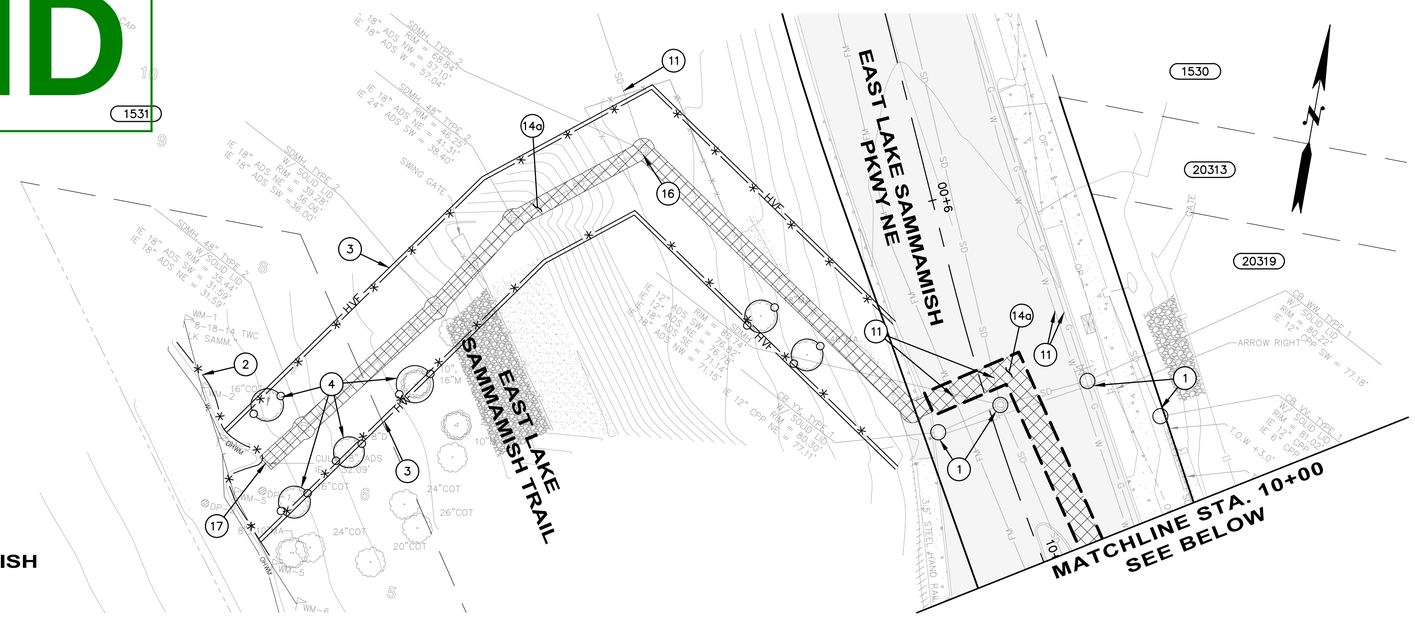
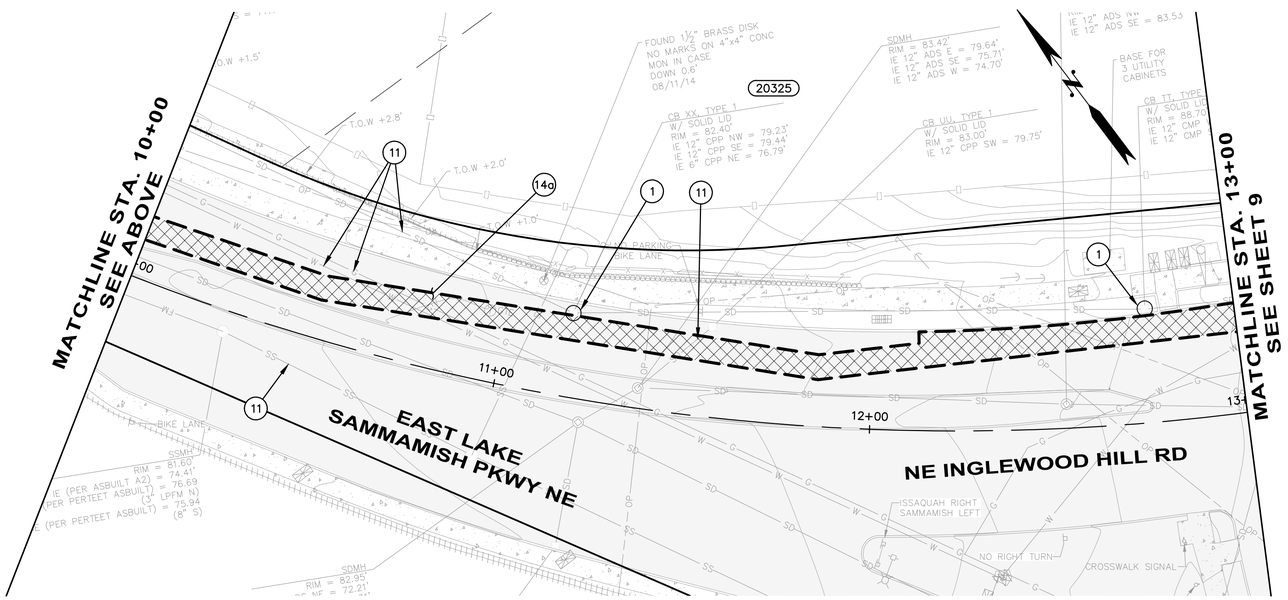
SEC. 29 , T. 25 N., R. 6 E., W.M.





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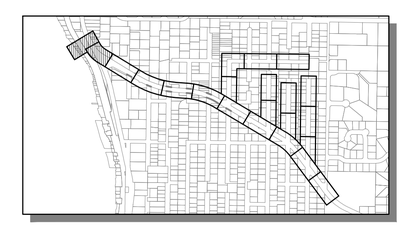

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LAURA RUPPERT STATE OF WASHINGTON 43848 REGISTERED PROFESSIONAL ENGINEER
4/20/16

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City of Sammamish Washington

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1800 112th Ave. NE, Suite 220E Ph (425) 451-4009
Bellevue, WA. 98004 Fax (425) 451-4901

DESIGNED BY: LCR
DRAWN BY: RDH
CHECKED BY: LAT
DATE: FEB. 2016

INGLEWOOD HILL STORMWATER AND NON-MOTORIZED IMPROVEMENTS
DEMOLITION AND TESC
BEGINNING TO STA. 13+00

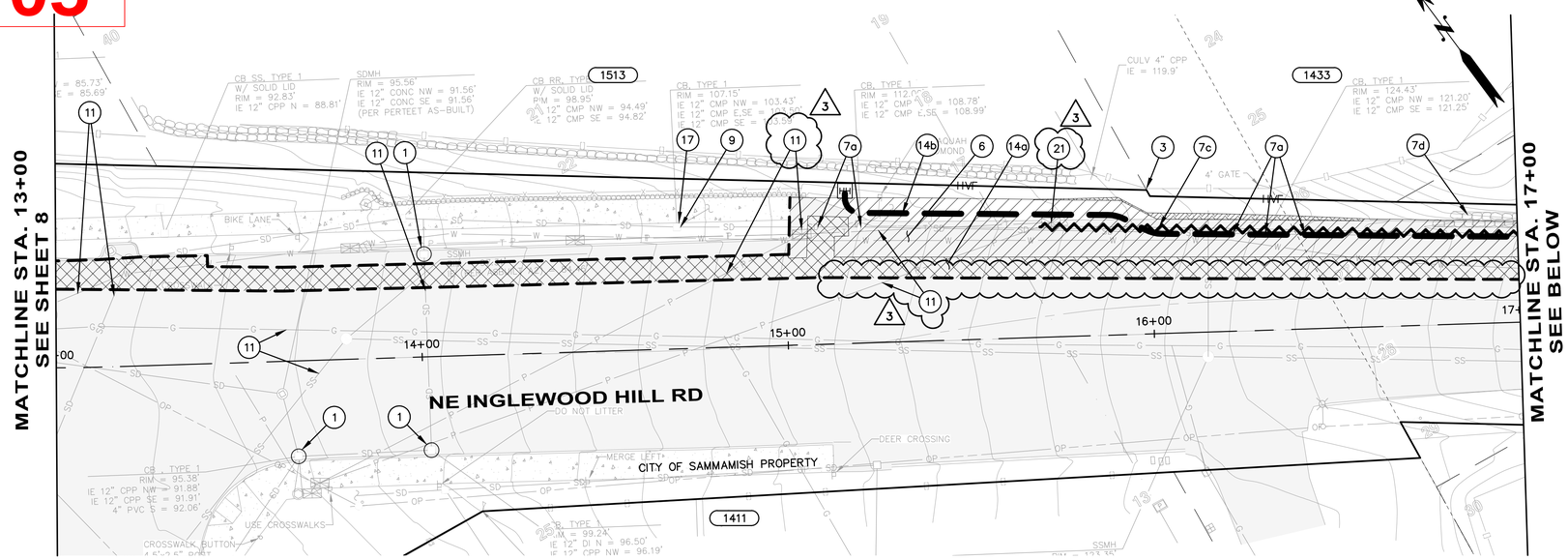
10-140008
OCI PROJECT NO.

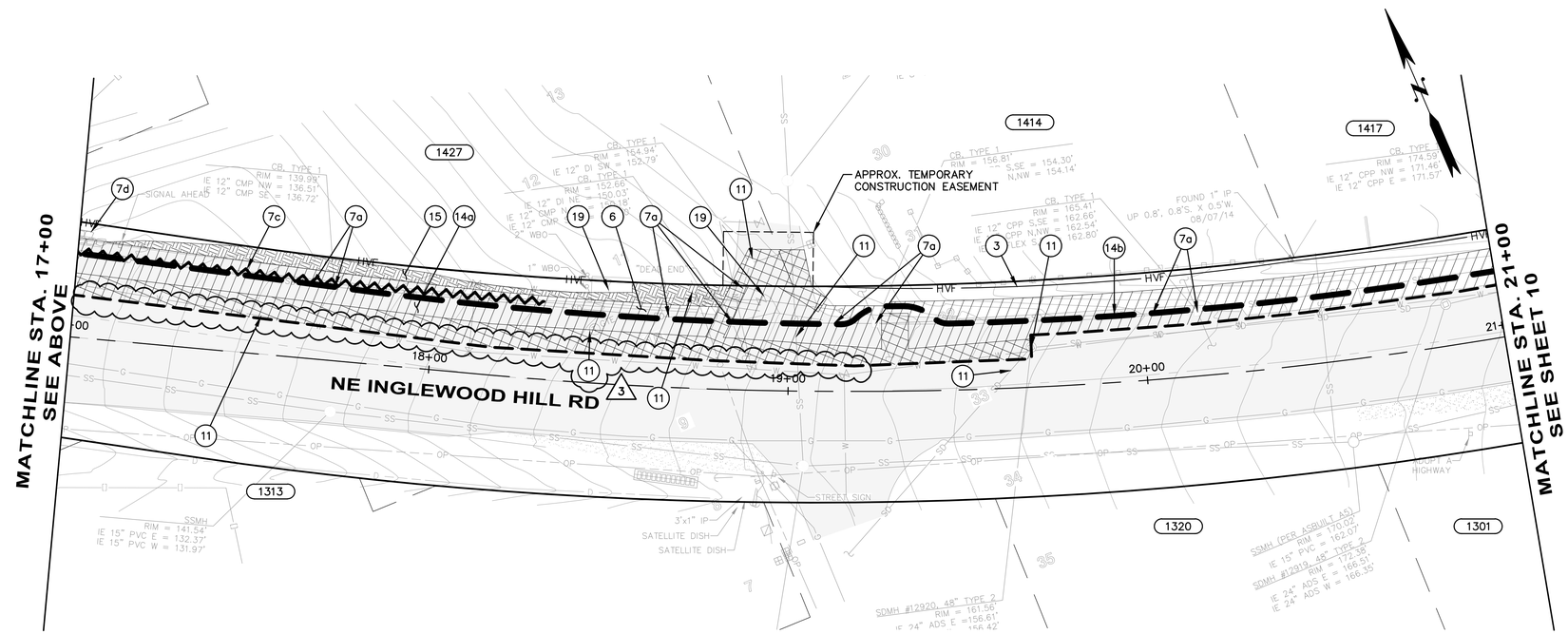
8 SHEET OF 89

PLOTTING DATE: 4/20/2016 USER: Travis FranklinFILE NAME: P:\10-140008 Inglewood Drainage\3 CADD\Sheets\P_10-140008_TESC01.dwg

RFI 05

SEC. 29 , T. 25 N., R. 6 E., W.M.





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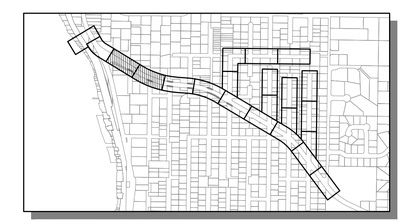
21. UTILITY ADJUSTMENT TO GRADE BY OTHERS. (3)



KEY MAP
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LAURA RUFFNER
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NO.	DATE	BY	CKD.	REVISION
3	7/7/16	TNF	LR	RFI-005 UTILITY ADJUSTMENTS

City of Sammamish Washington

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DATE: FEB. 2016

INGLEWOOD HILL STORMWATER AND NON-MOTORIZED IMPROVEMENTS
DEMOLITION AND TESC
STA. 13+00 TO STA. 21+00

10-140008
OCI PROJECT NO.

SHEET 9 OF 89

PLOTTING DATE: 7/7/2016 USER: Travis FranklirFILE NAME: P:\10-140008 Inglewood Drainage\3 CADD\Sheets\P_10-140008_TESC01.dwg

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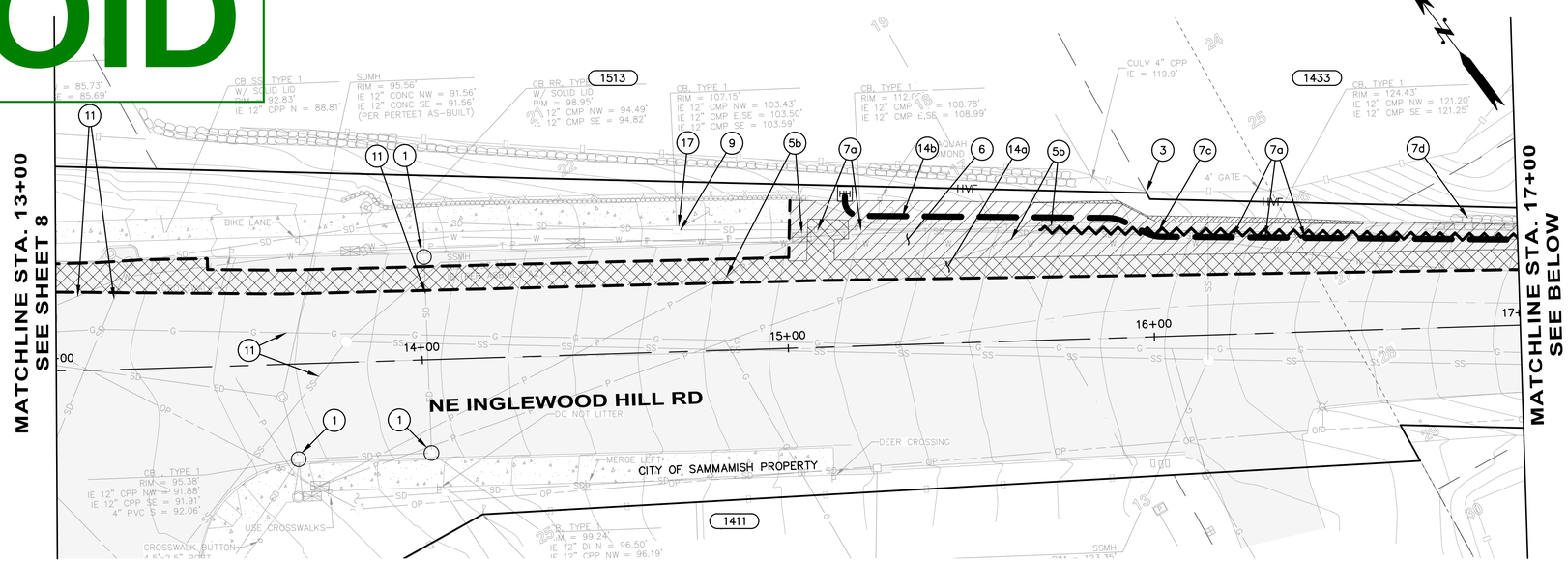

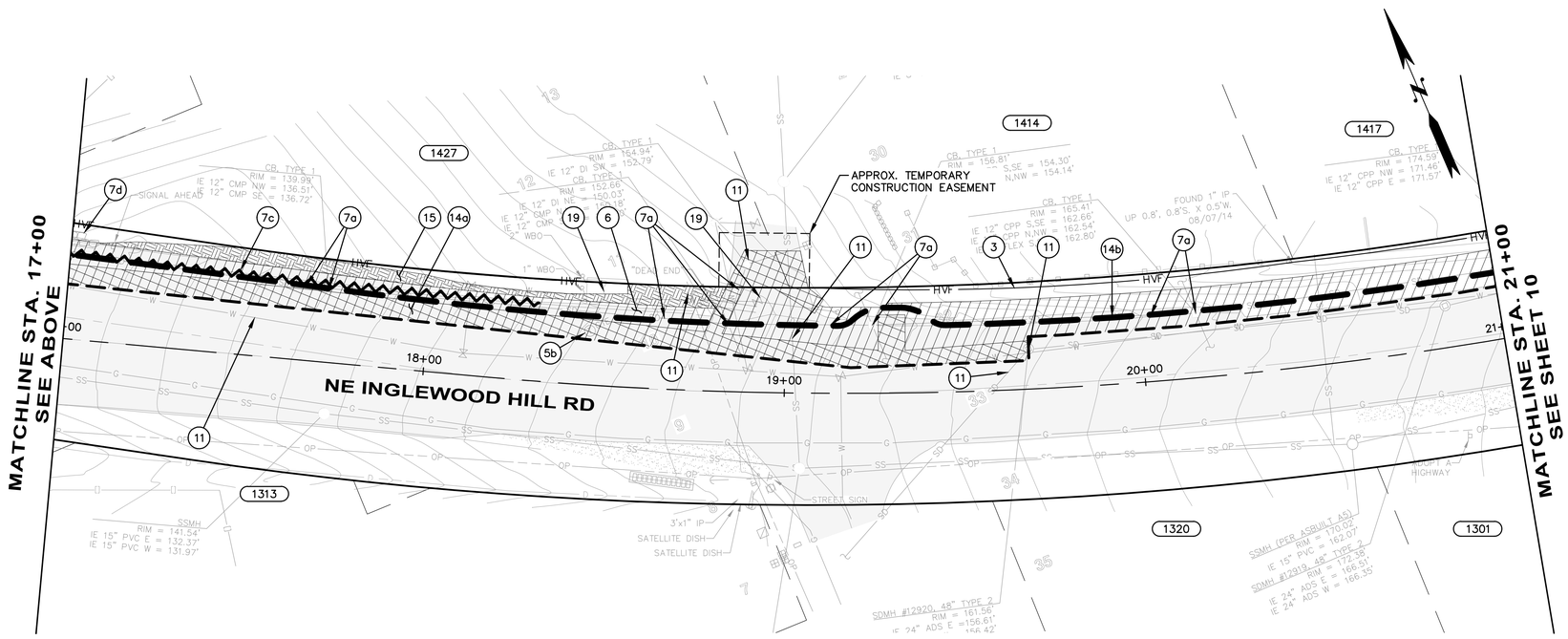

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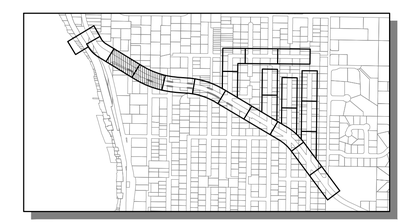

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9 SHEET OF 89

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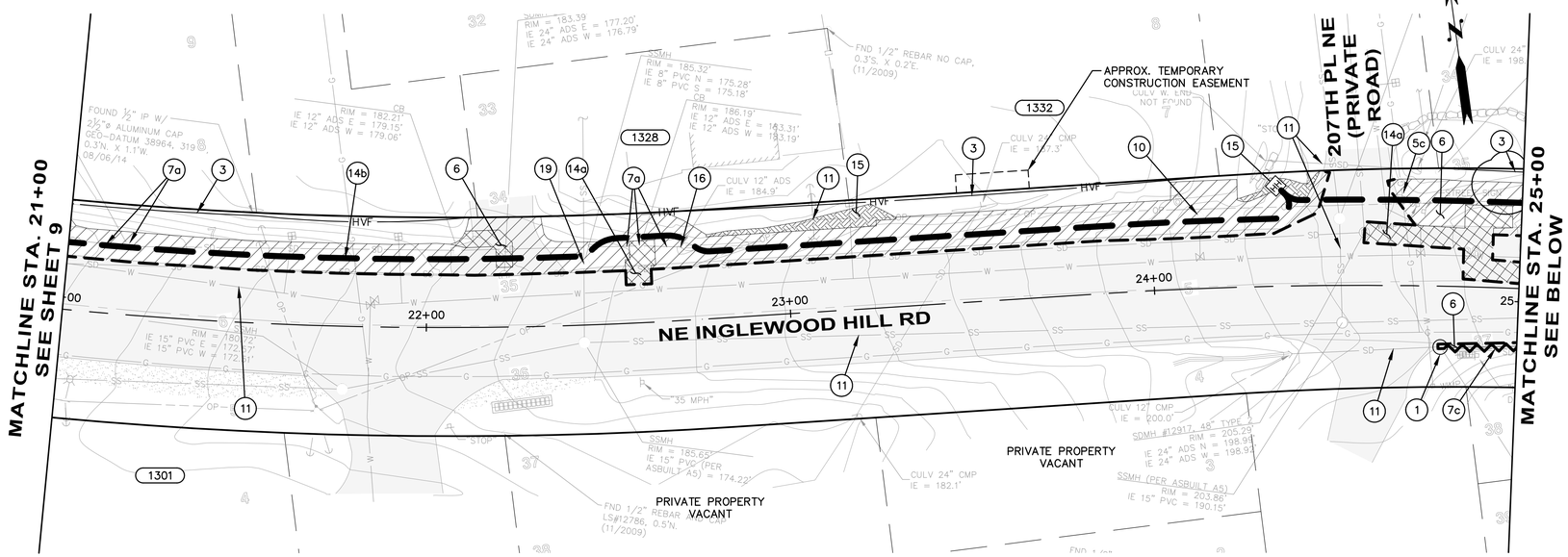
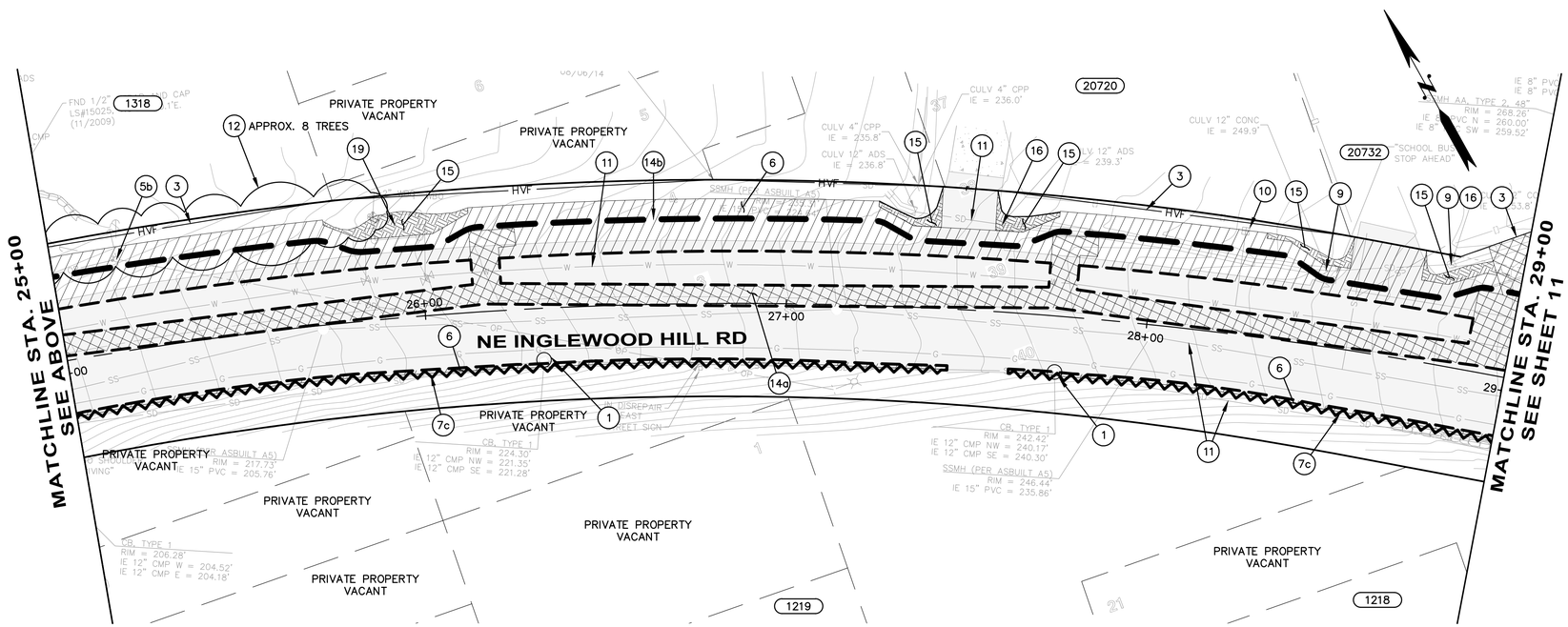
SEC. 29 , T. 25 N., R. 6 E., W.M.





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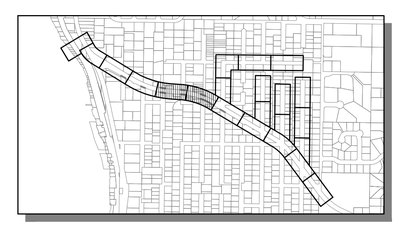


KEY MAP
SCALE: 1"=1000'

Know what's below.
Call before you dig.

LAURA RUPPERT
STATE OF WASHINGTON
43848
REGISTERED PROFESSIONAL ENGINEER
4/20/16

SCALE: 1" = 20'
0 20 40 60

SCALE BARS INDICATE SCALE OF FULL-SIZE (22 X 34 INCH) DRAWINGS. FOR REDUCED SIZE DRAWINGS ADJUST SCALE ACCORDINGLY.

NO.	DATE	BY	CKD.	REVISION

City of Sammamish Washington

OSBORN CONSULTING INCORPORATED
OSBORN CONSULTING, INC.
1800 112th Ave. NE, Suite 220E Ph (425) 451-4009
Bellevue, WA. 98004 Fax (425) 451-4901

DESIGNED BY: LCR
DRAWN BY: RDH
CHECKED BY: LAT
DATE: FEB. 2016

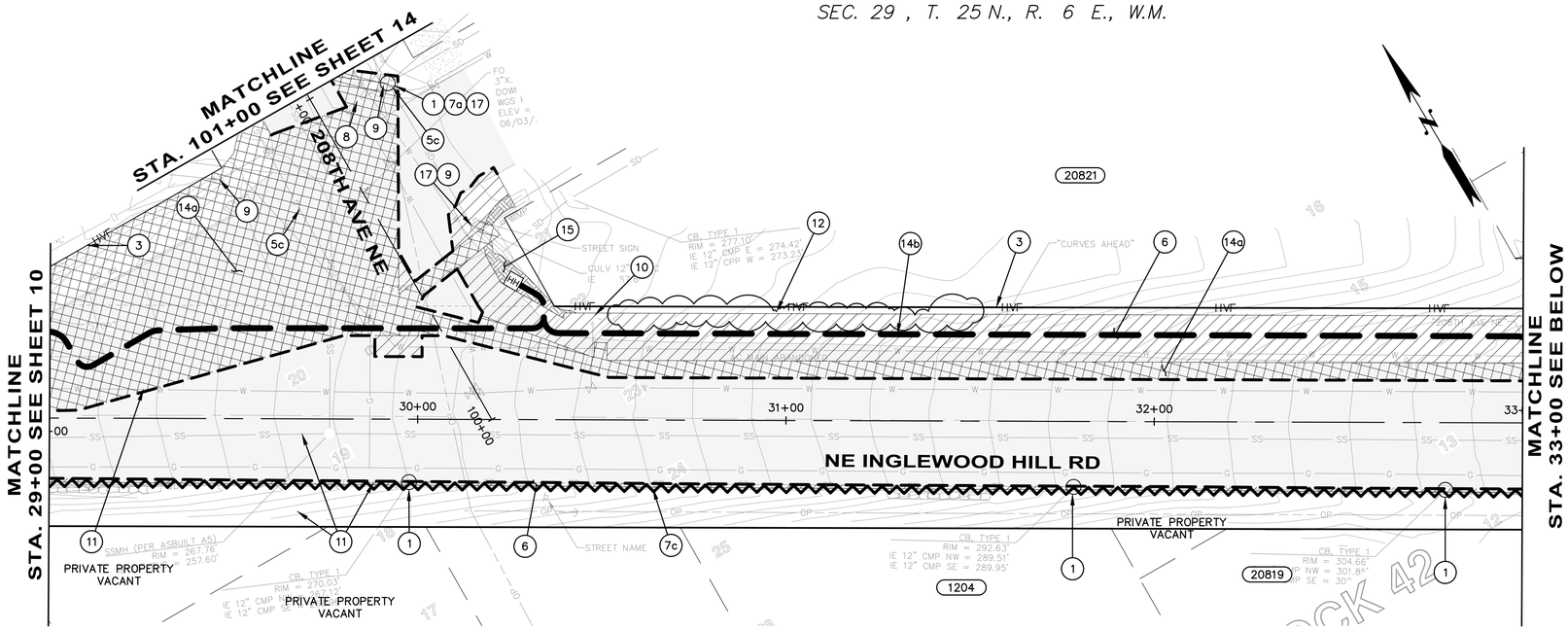
INGLEWOOD HILL STORMWATER AND NON-MOTORIZED IMPROVEMENTS
DEMOLITION AND TESC
STA. 21+00 TO STA. 29+00

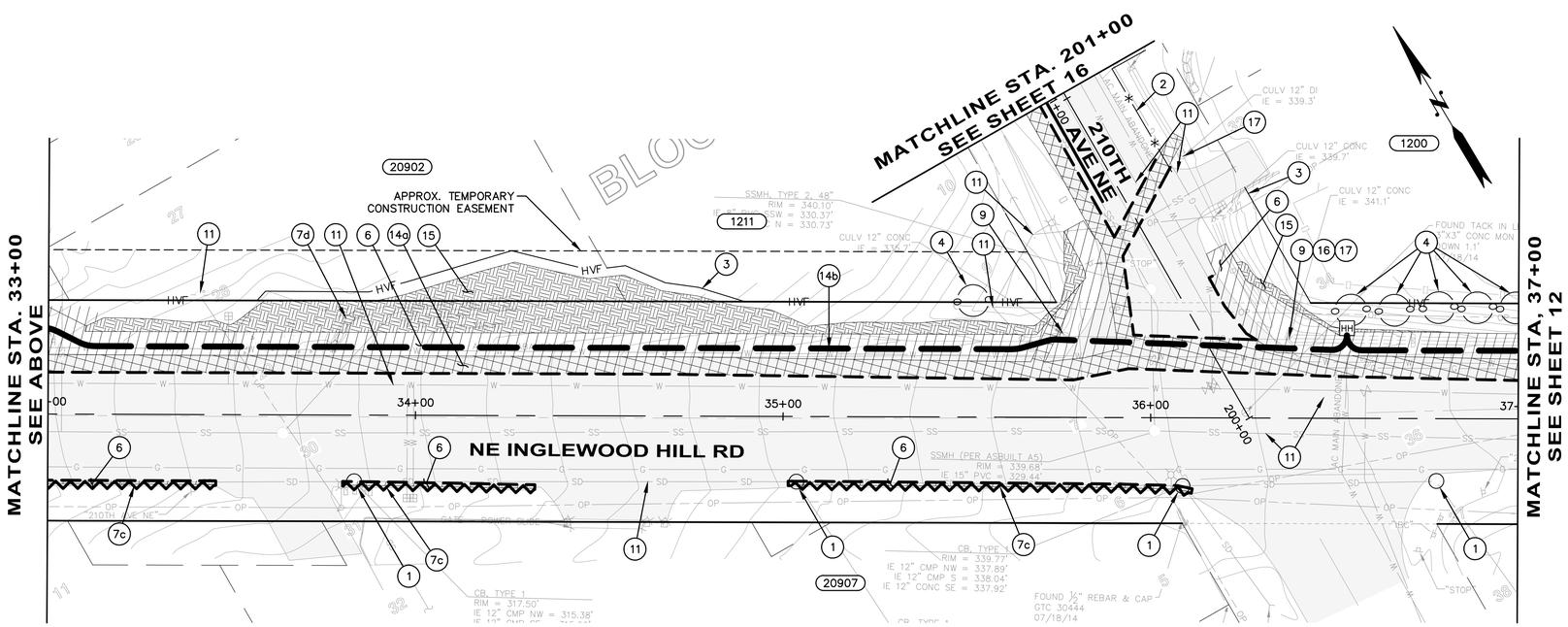
10-140008
OCI PROJECT NO.

10 SHEET OF 89

PLOTTING DATE: 4/20/2016 USER: Travis Frankin FILE NAME: P:\10-140008 Inglewood Drainage\3 CADD\Sheets\P_10-140008_TESC01.dwg

SEC. 29 , T. 25 N., R. 6 E., W.M.





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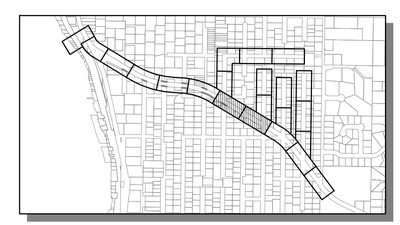

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STATE OF WASHINGTON
43848
REGISTERED PROFESSIONAL ENGINEER
4/20/16

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1800 112th Ave. NE, Suite 220E Ph (425) 451-4009
Bellevue, WA. 98004 Fax (425) 451-4901

DESIGNED BY: LCR
DRAWN BY: RDH
CHECKED BY: LAT
DATE: FEB. 2016

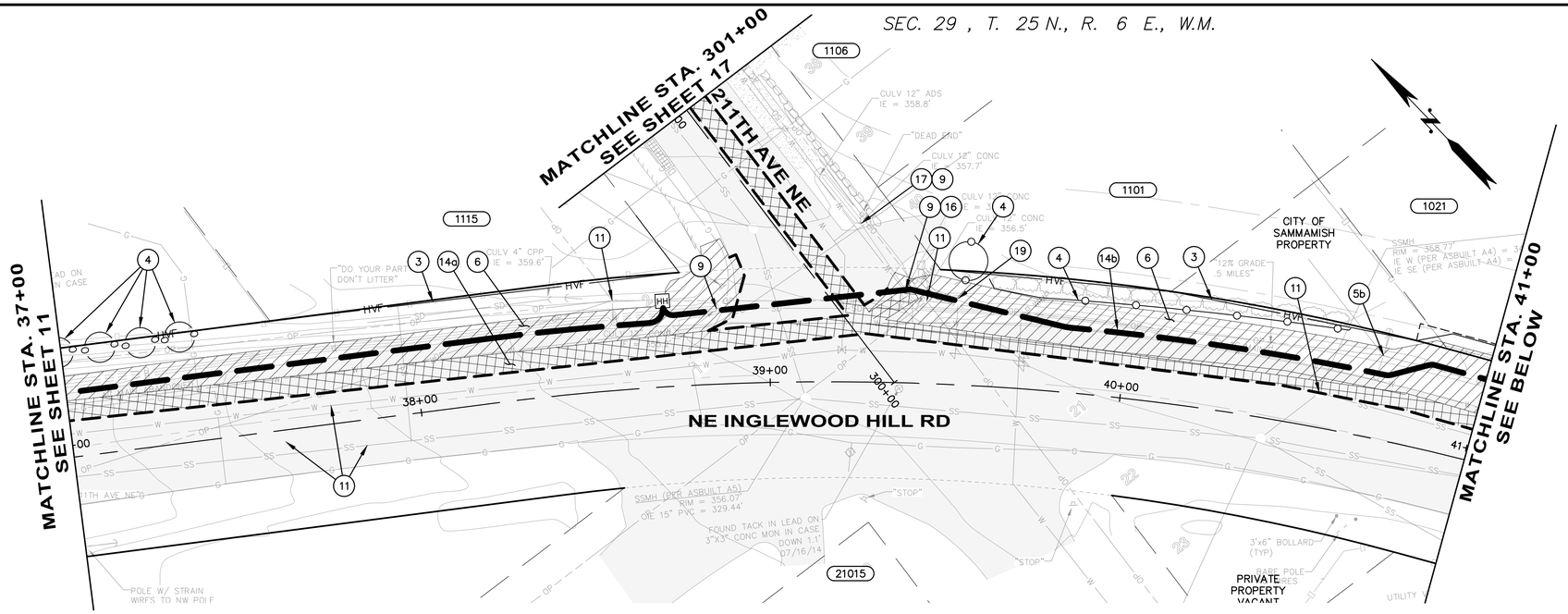
INGLEWOOD HILL STORMWATER AND NON-MOTORIZED IMPROVEMENTS
DEMOLITION AND TESC
STA. 29+00 TO STA. 37+00

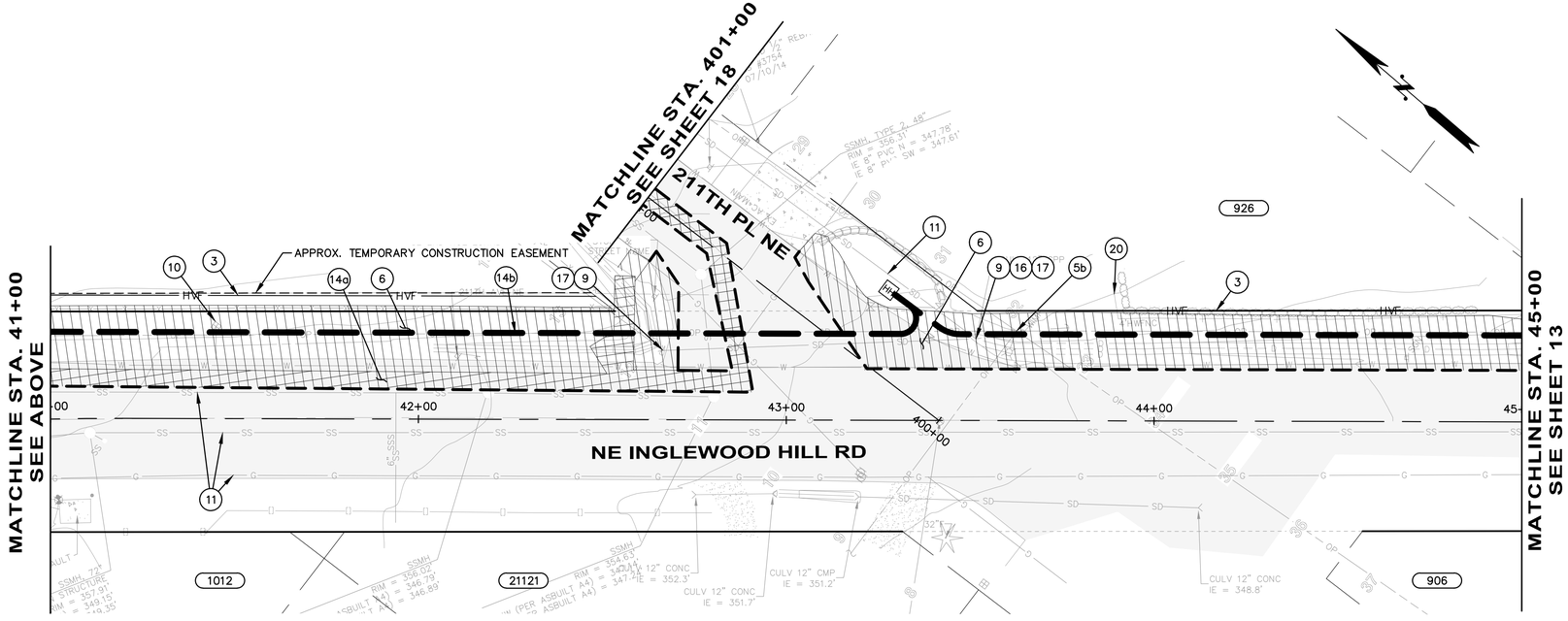
10-140008
OCI PROJECT NO.

11 SHEET OF 89

PLOTTING DATE: 4/20/2016 USER: Travis Frankl FILE NAME: P:\10-140008 Inglewood Drainage\3 CADD\Sheets\P_10-140008_TESC01.dwg

SEC. 29 , T. 25 N., R. 6 E., W.M.





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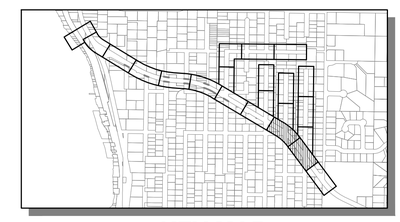

KEY MAP
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Call before you dig.

LARA RUFFNER
STATE OF WASHINGTON
43848
REGISTERED PROFESSIONAL ENGINEER
4/20/16

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0 20 40 60

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NO.	DATE	BY	CKD.	REVISION

City of Sammamish Washington

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1800 112th Ave. NE, Suite 220E Ph (425) 451-4009
Bellevue, WA. 98004 Fax (425) 451-4901

DESIGNED BY: LCR
DRAWN BY: RDH
CHECKED BY: LAT
DATE: FEB. 2016

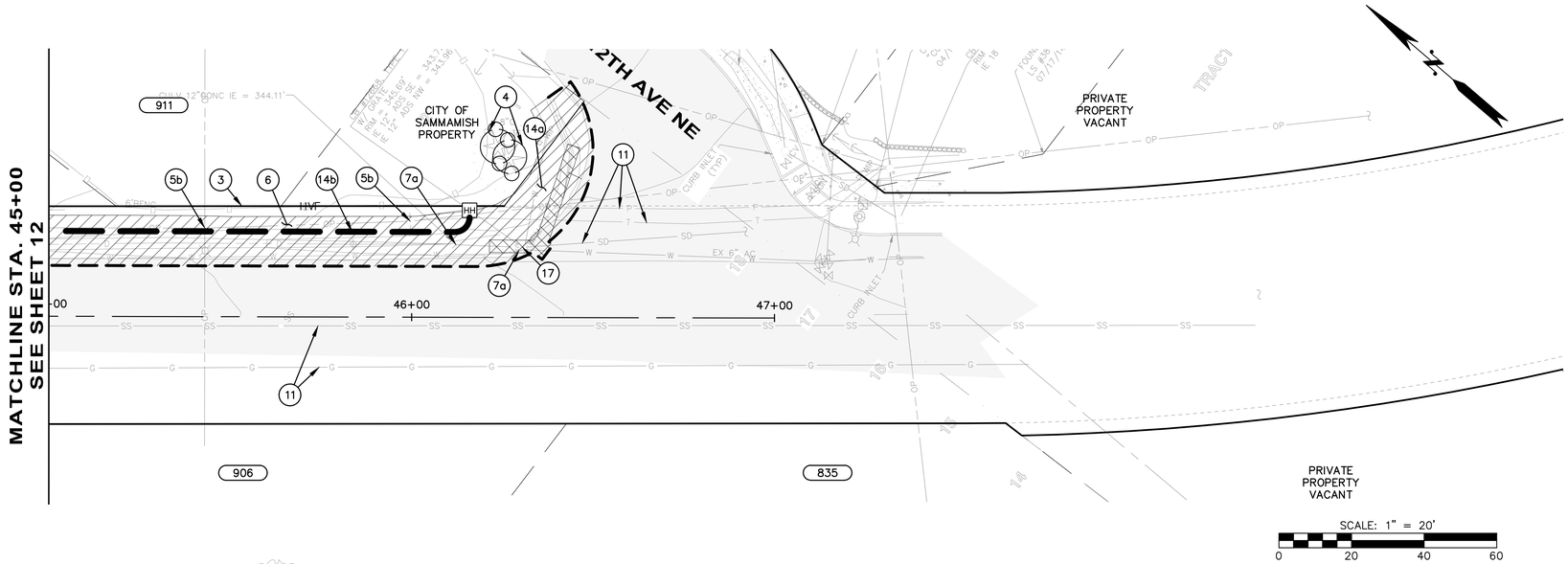
INGLEWOOD HILL STORMWATER AND NON-MOTORIZED IMPROVEMENTS
DEMOLITION AND TESC
STA. 37+00 TO STA. 45+00

10-140008
OCI PROJECT NO.

12 SHEET OF 89

PLOTTING DATE: 4/20/2016 USER: Travis Frankin FILE NAME: P:\10-140008 Inglewood Drainage\3 CADD\Sheets\P_10-140008_TESC01.dwg

SEC. 29 , T. 25 N., R. 6 E., W.M.



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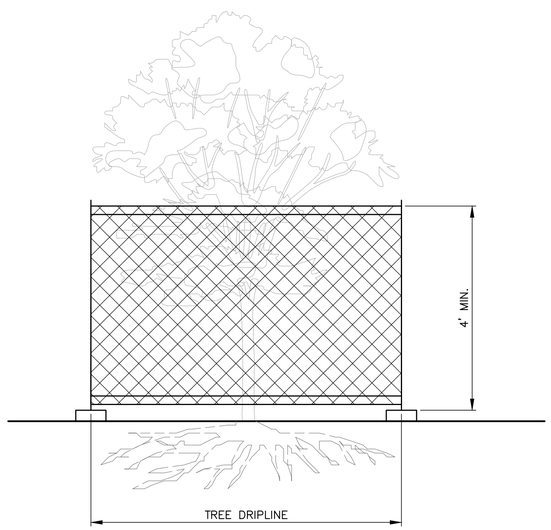
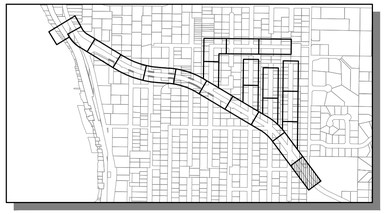


NOTES:

1. A MINIMUM 4-FT. HIGH TEMPORARY TREE PROTECTION BARRIER MADE OF CHAIN LINK FENCE, POLYETHYLENE LAMINAR SAFETY FENCING, OR SIMILAR MATERIAL SHALL BE PLACED AT LOCATIONS SHOWN ON THE TESC PLAN. INSTALL FENCE POSTS USING PIER BLOCKS ONLY EXCEPT WHERE SLOPE CONDITIONS WILL NOT ALLOW FOR STABLE INSTALLATION. AVOID DRIVING ANY POSTS OR STAKES INTO MAJOR ROOTS.
2. INSTALL TREE PROTECTION AREA SIGNS ON FENCED TREE PROTECTION AREAS.
3. FOR ROOTS OVER 1-IN DIA. THAT ARE DAMAGED DURING CONSTRUCTION, MAKE A CLEAN, STRAIGHT CUT TO REMOVE THE DAMAGED PORTION. ALL EXPOSED ROOTS SHALL BE TEMPORARILY COVERED WITH DAMP BURLAP TO PREVENT DRYING, AND SHALL BE COVERED WITH SOIL AS SOON AS POSSIBLE.
4. WORK WITHIN/BEHIND PROTECTION FENCE SHALL BE DONE MANUALLY. NO STOCKPILING OF MATERIALS, VEHICULAR TRAFFIC, OR STORAGE OF EQUIPMENT OR MACHINERY SHALL BE ALLOWED WITHIN THE LIMIT OF THE FENCING.

TREE PROTECTION DETAIL
N.T.S.



KEY MAP
SCALE: 1"=1000'

811
Know what's below.
Call before you dig.

LAURA RUPPERT
STATE OF WASHINGTON
43648
REGISTERED PROFESSIONAL ENGINEER
4/20/16

SCALE BARS INDICATE SCALE OF FULL-SIZE (22 X 34 INCH) DRAWINGS. FOR REDUCED SIZE DRAWINGS ADJUST SCALE ACCORDINGLY.

NO.	DATE	BY	CKD.	REVISION

City of Sammamish Washington

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Bellevue, WA. 98004 Fax (425) 451-4901

DESIGNED BY: LCR
DRAWN BY: RDH
CHECKED BY: LAT
DATE: FEB. 2016

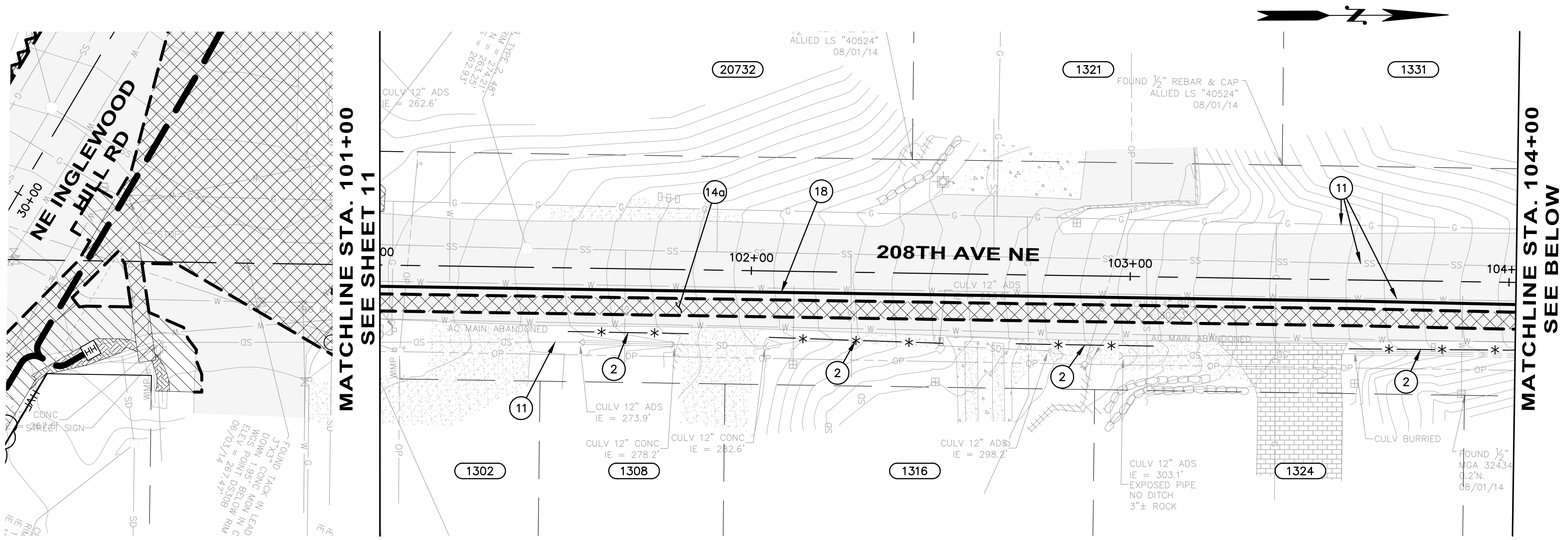
INGLEWOOD HILL STORMWATER AND NON-MOTORIZED IMPROVEMENTS
DEMOLITION AND TESC
STA. 45+00 TO STA. 47+00

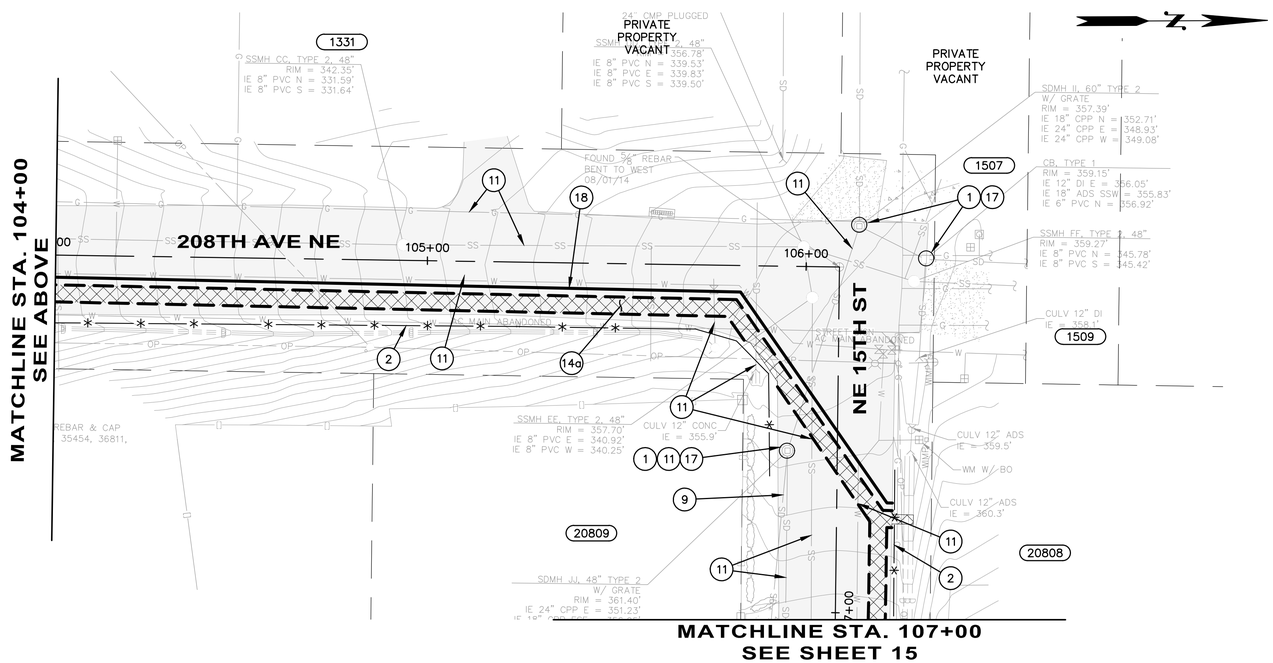
10-140008
OCI PROJECT NO.

SHEET 13 OF 89

PLOTTING DATE: 4/20/2016 USER: Travis Franklin FILE NAME: P:\10-140008 Inglewood Drainage\3 CADD\Sheets\P_10-140008_TESC01.dwg

SEC. 29 , T. 25 N., R. 6 E., W.M.





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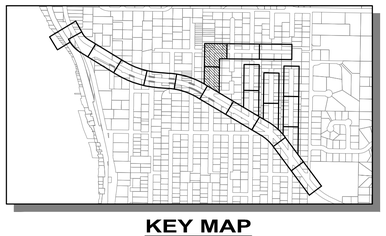

KEY MAP
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811
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STATE OF WASHINGTON
43848
REGISTERED
PROFESSIONAL ENGINEER
4/20/16

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NO.	DATE	BY	CKD.	REVISION
1	3/21/2016	TNF	LCR	ADDENDUM #1 REVISIONS

City of Sammamish Washington

OSBORN CONSULTING INCORPORATED
OSBORN CONSULTING, INC.
1800 112th Ave. NE, Suite 220E Ph (425) 451–4009
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DESIGNED BY: LCR
DRAWN BY: RDH
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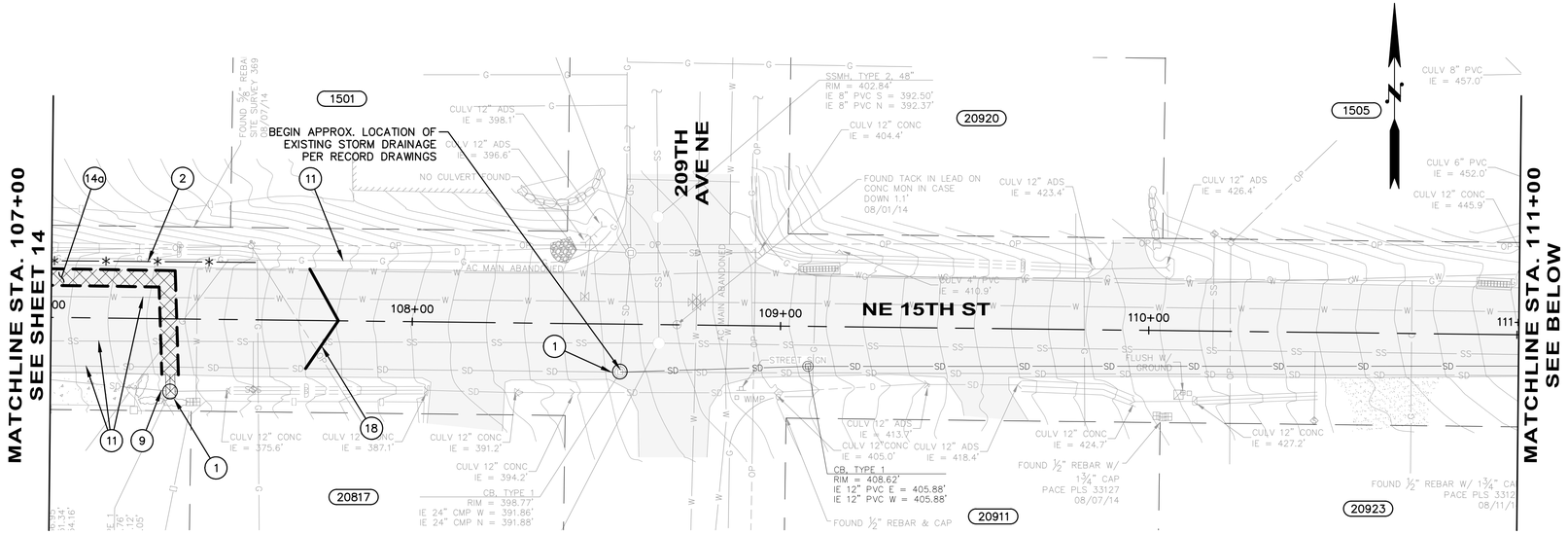
INGLEWOOD HILL STORMWATER AND NON-MOTORIZED IMPROVEMENTS
DEMOLITION AND TESC
STA. 101+00 TO STA. 107+00

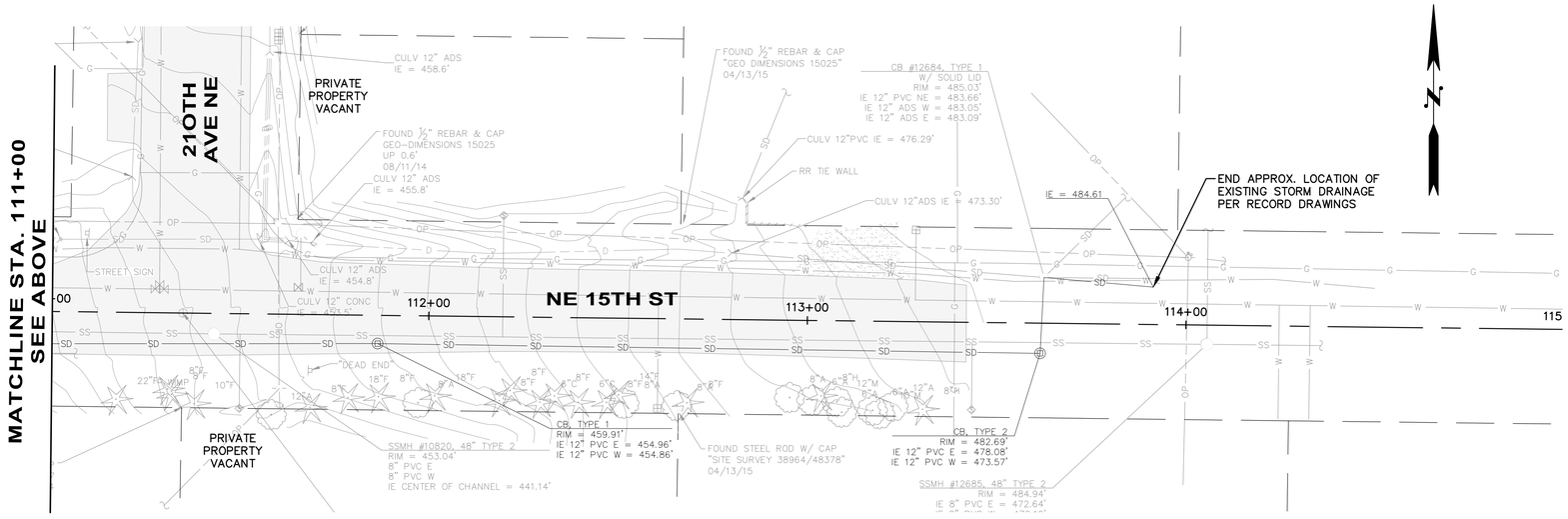
10-140008
OCI PROJECT NO.

14 SHEET OF 89

PLOTTING DATE: 3/24/2016 USER: Travis FrankIFILE NAME: P:\10-140008 Inglewood Drainage\3 CADD\Sheets\P_10-140008_TESC02.dwg

SEC. 29 , T. 25 N., R. 6 E., W.M.





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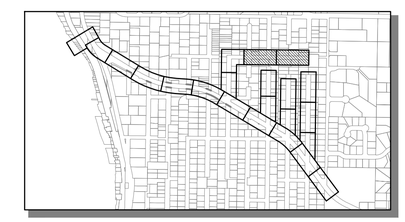


KEY MAP
SCALE: 1"=1000'

811
Know what's below.
Call before you dig.

LAURA RUPPERT
STATE OF WASHINGTON
43848
REGISTERED PROFESSIONAL ENGINEER
4/20/16

SCALE: 1" = 20'
0 20 40 60

SCALE BARS INDICATE SCALE OF FULL-SIZE (22 X 34 INCH) DRAWINGS. FOR REDUCED SIZE DRAWINGS ADJUST SCALE ACCORDINGLY.

NO.	DATE	BY	CKD.	REVISION

City of Sammamish Washington

OSBORN CONSULTING INCORPORATED
OSBORN CONSULTING, INC.
1800 112th Ave. NE, Suite 220E Ph (425) 451-4009
Bellevue, WA. 98004 Fax (425) 451-4901

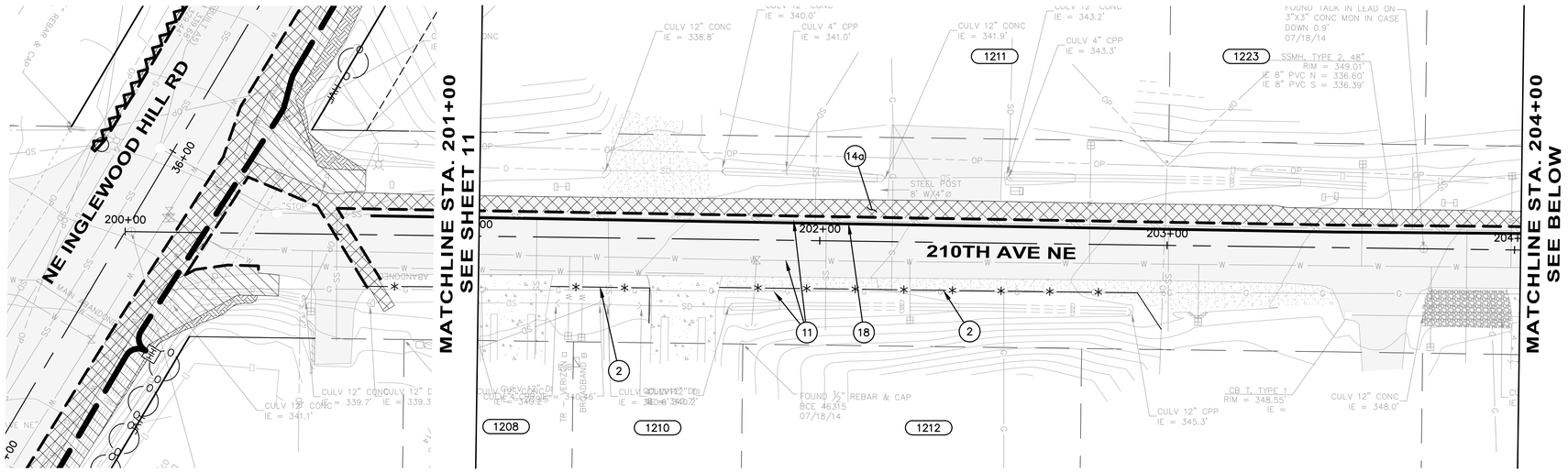
DESIGNED BY: LCR
DRAWN BY: RDH
CHECKED BY: LAT
DATE: FEB. 2016

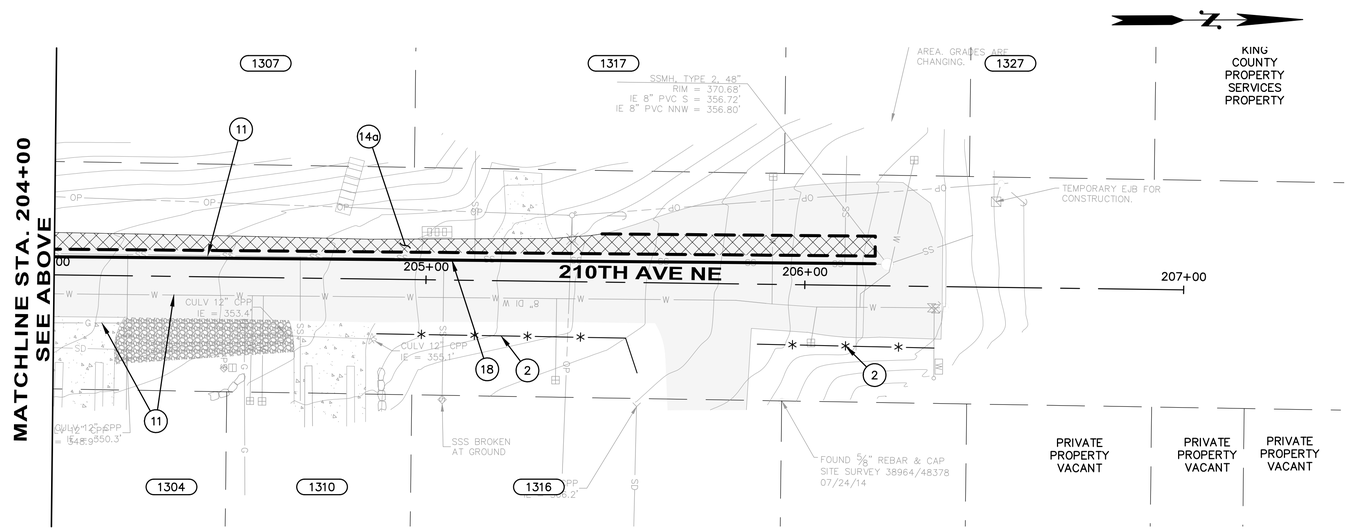
INGLEWOOD HILL STORMWATER AND NON-MOTORIZED IMPROVEMENTS
DEMOLITION AND TESC
STA. 107+00 TO STA. 111+00

10-140008
OCI PROJECT NO.

15 SHEET 89 OF

PLOTTING DATE: 3/24/2016 USER: Travis FranklinFILE NAME: P:\10-140008 Inglewood Drainage\3 CADD\Sheets\P_10-140008_TESC02.dwg





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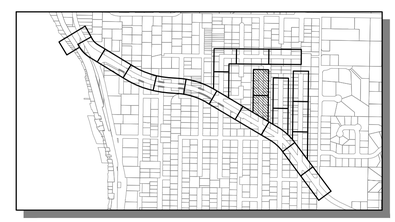

KEY MAP
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LAURA RUFFNER, STATE OF WASHINGTON, 43848, REGISTERED PROFESSIONAL ENGINEER
4/20/16

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NO.	DATE	BY	CKD.	REVISION
1	3/21/2016	TNF	LCR	ADDENDUM #1 REVISIONS

City of Sammamish Washington

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CHECKED BY: LAT
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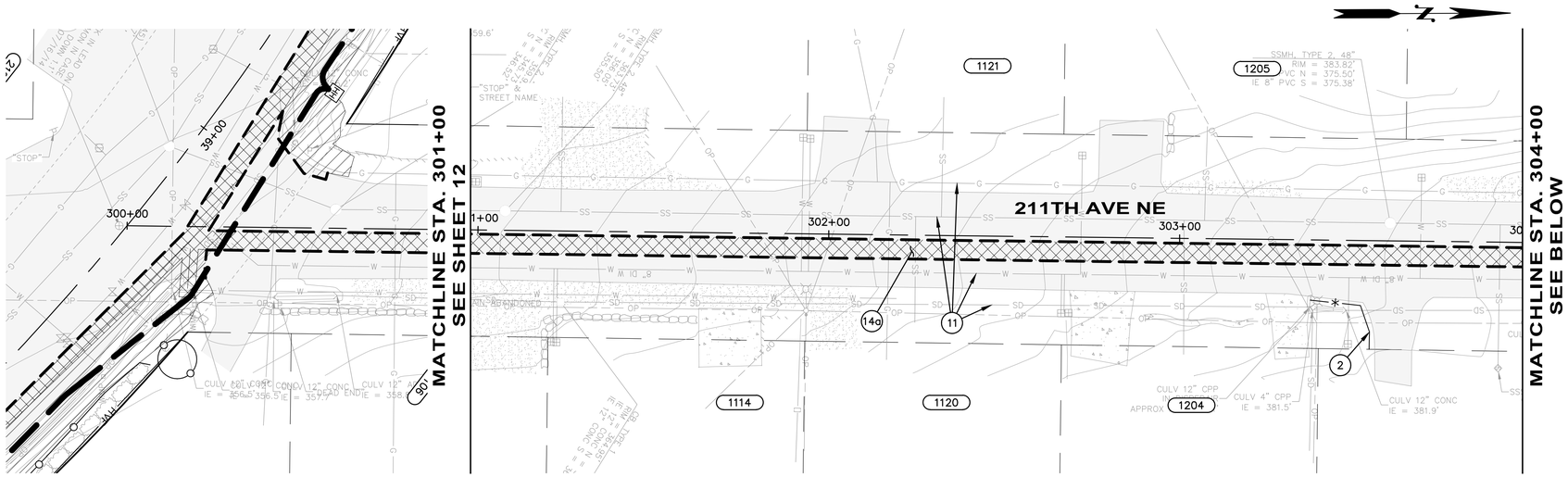
INGLEWOOD HILL STORMWATER AND NON-MOTORIZED IMPROVEMENTS
DEMOLITION AND TESC
STA. 201+00 TO STA. 207+00

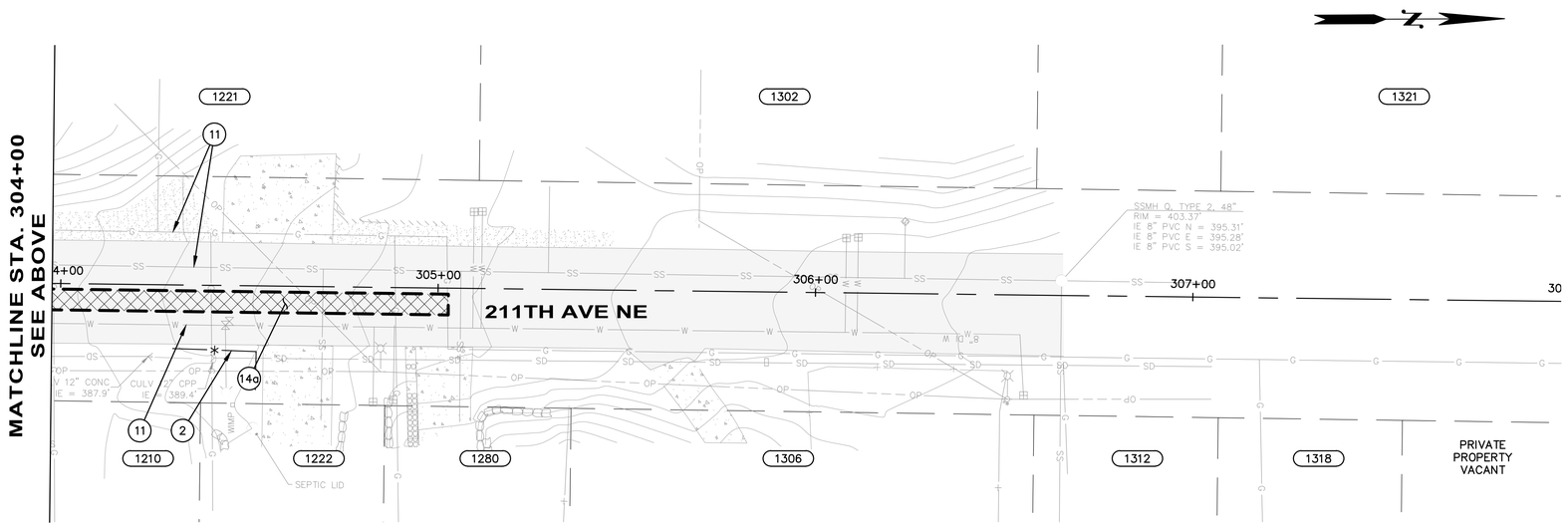
10-140008
OCI PROJECT NO.

16 SHEET OF 89

PLOTTING DATE: 3/24/2016 USER: Travis FranklirFILE NAME: P:\10–140008 Inglewood Drainage\3 CADD\Sheets\P_10–140008_TESC02.dwg

SEC. 29 , T. 25 N., R. 6 E., W.M.





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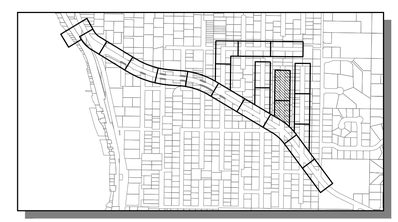

KEY MAP
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STATE OF WASHINGTON
43848
REGISTERED
PROFESSIONAL ENGINEER
4/20/16

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DESIGNED BY: LCR
DRAWN BY: RDH
CHECKED BY: LAT
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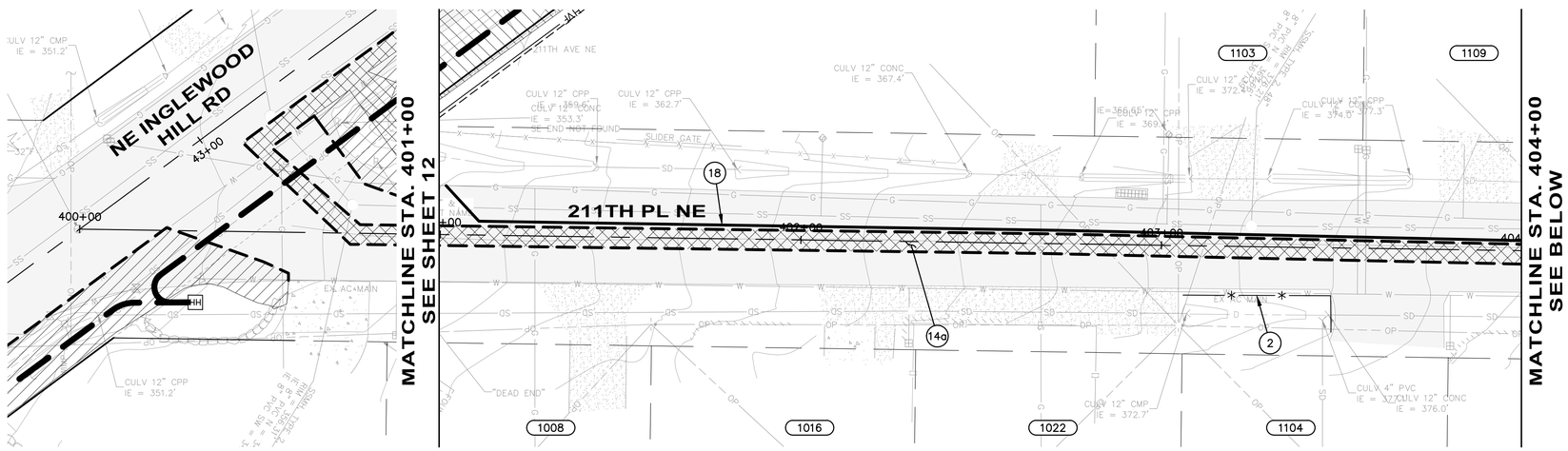
INGLEWOOD HILL STORMWATER AND NON-MOTORIZED IMPROVEMENTS
DEMOLITION AND TESC
STA. 301+00 TO STA. 308+00

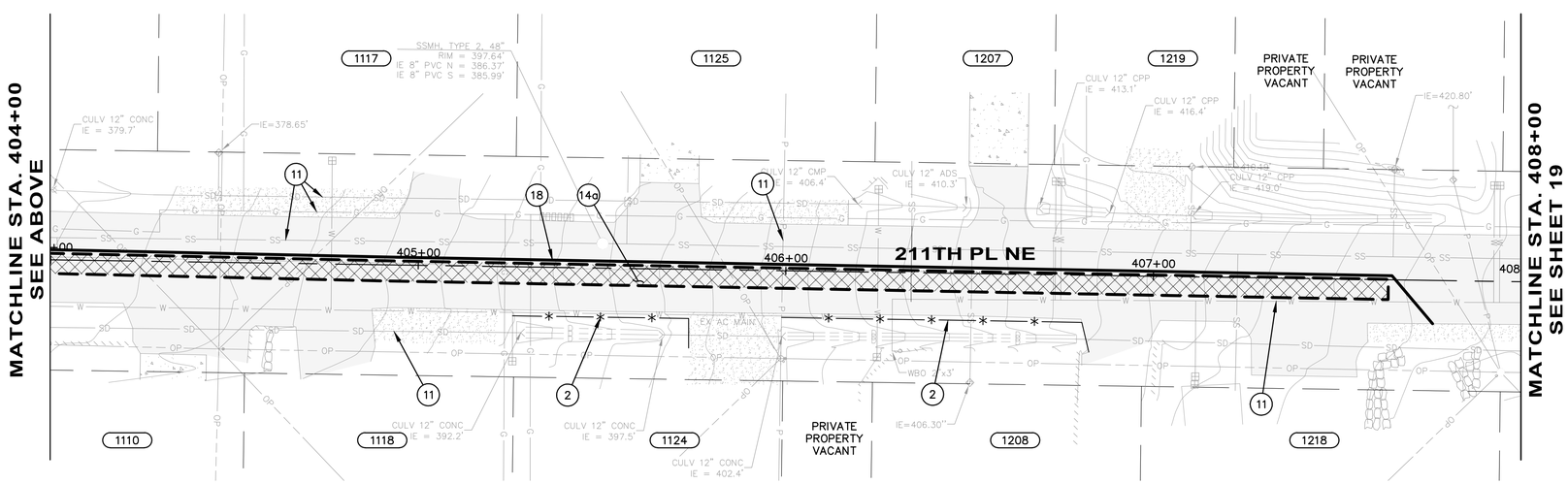
10-140008
OCI PROJECT NO.

SHEET 17 OF 89

PLOTTING DATE: 3/24/2016 USER: Travis Frankl FILE NAME: P:\10-140008 Inglewood Drainage\3 CADD\Sheets\P_10-140008_TESC02.dwg

SEC. 29 , T. 25 N., R. 6 E., W.M.





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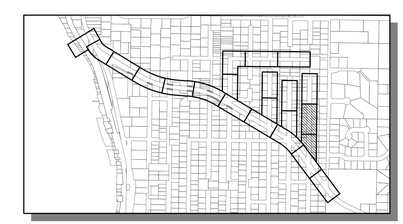

KEY MAP
SCALE: 1"=1000'

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4/20/16

SCALE: 1" = 20'
0 20 40 60

SCALE BARS INDICATE SCALE OF FULL-SIZE (22 X 34 INCH) DRAWINGS. FOR REDUCED SIZE DRAWINGS ADJUST SCALE ACCORDINGLY.

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1	3/21/2016	TNF	LCR	ADDENDUM #1 REVISIONS

City of Sammamish Washington

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Bellevue, WA. 98004 Fax (425) 451-4901

DESIGNED BY: LCR
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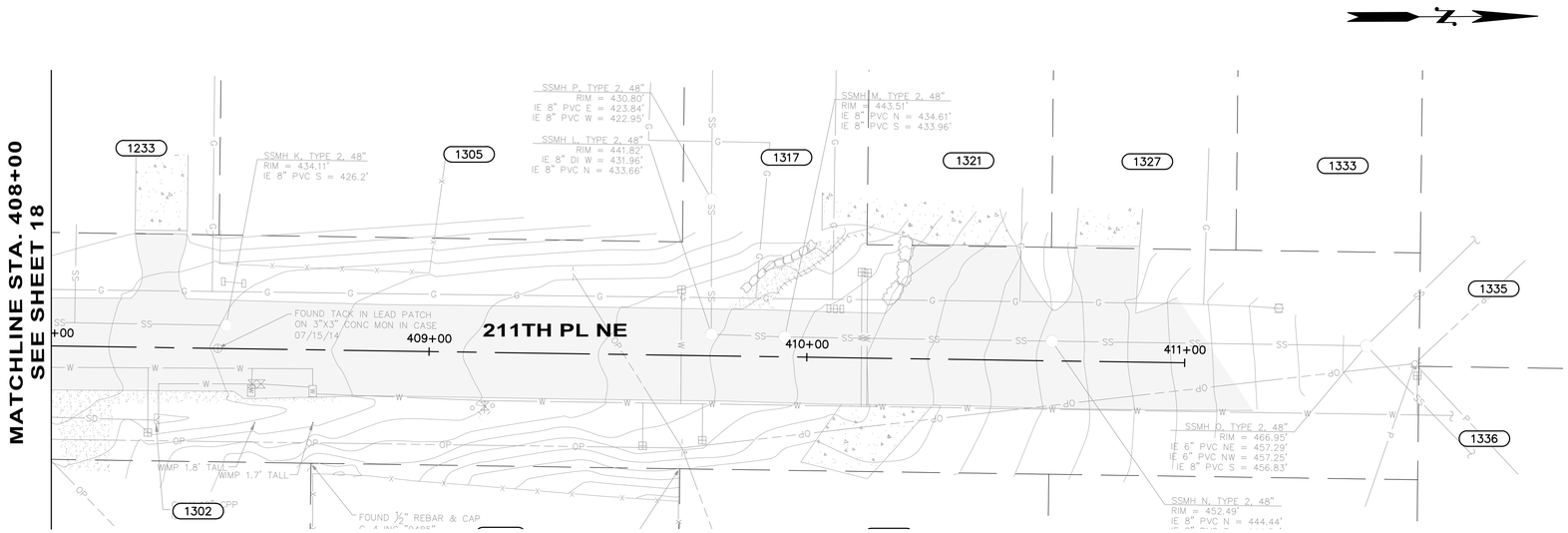
INGLEWOOD HILL STORMWATER AND NON-MOTORIZED IMPROVEMENTS
DEMOLITION AND TESC
STA. 401+00 TO STA. 408+00

10-140008
OCI PROJECT NO.

SHEET 18 OF 89

PLOTTING DATE: 3/24/2016 USER: Travis FranklinFILE NAME: P:\10-140008 Inglewood Drainage\3 CADD\Sheets\P_10-140008_TESC02.dwg

SEC. 29 , T. 25 N., R. 6 E., W.M.



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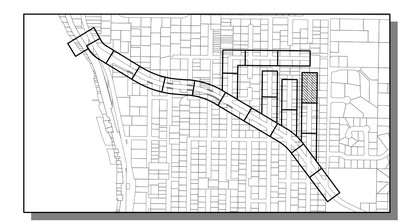

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STATE OF WASHINGTON
43848
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INGLEWOOD HILL STORMWATER AND NON-MOTORIZED IMPROVEMENTS
DEMOLITION AND TESC
STA. 408+00 TO STA. 411+00

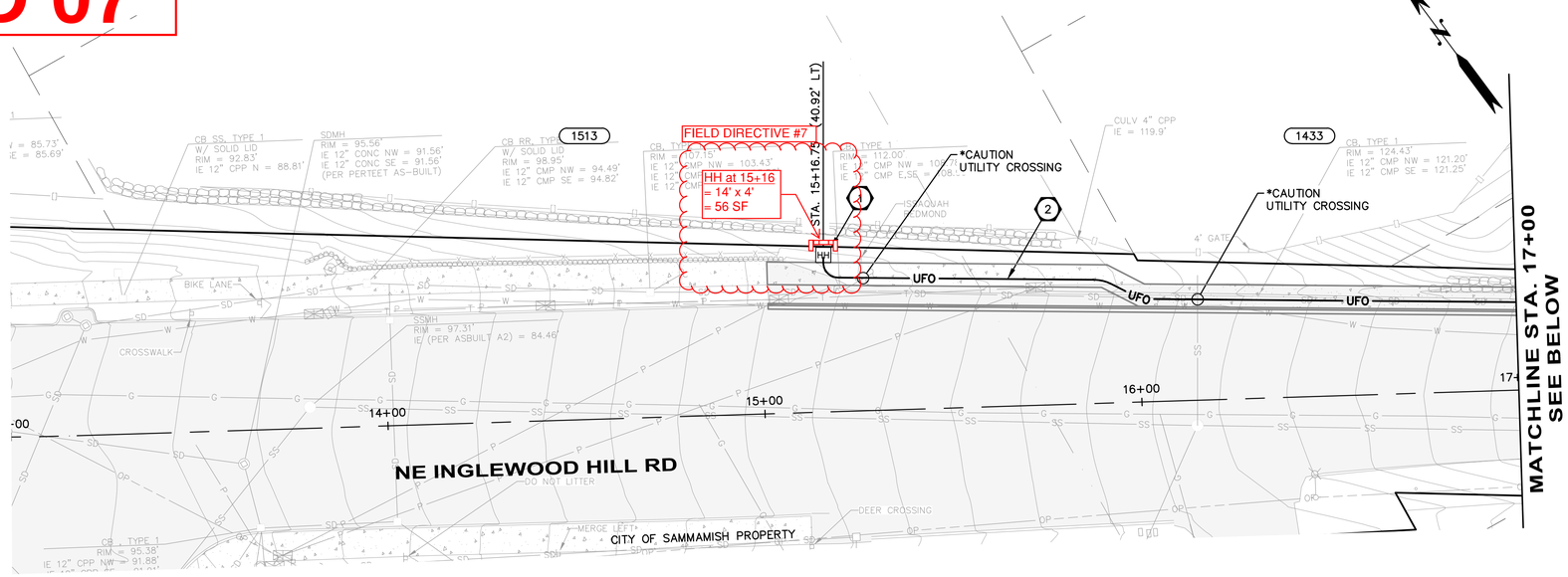
10-140008
OCI PROJECT NO.

19 SHEET
89 OF

PLOTTING DATE: 3/24/2016 USER: Travis FranklinFILE NAME: P:\10-140008 Inglewood Drainage\3 CADD\Sheets\P_10-140008_TESC02.dwg

FWD 07

SEC. 29 , T. 25 N., R. 6 E., W.M.

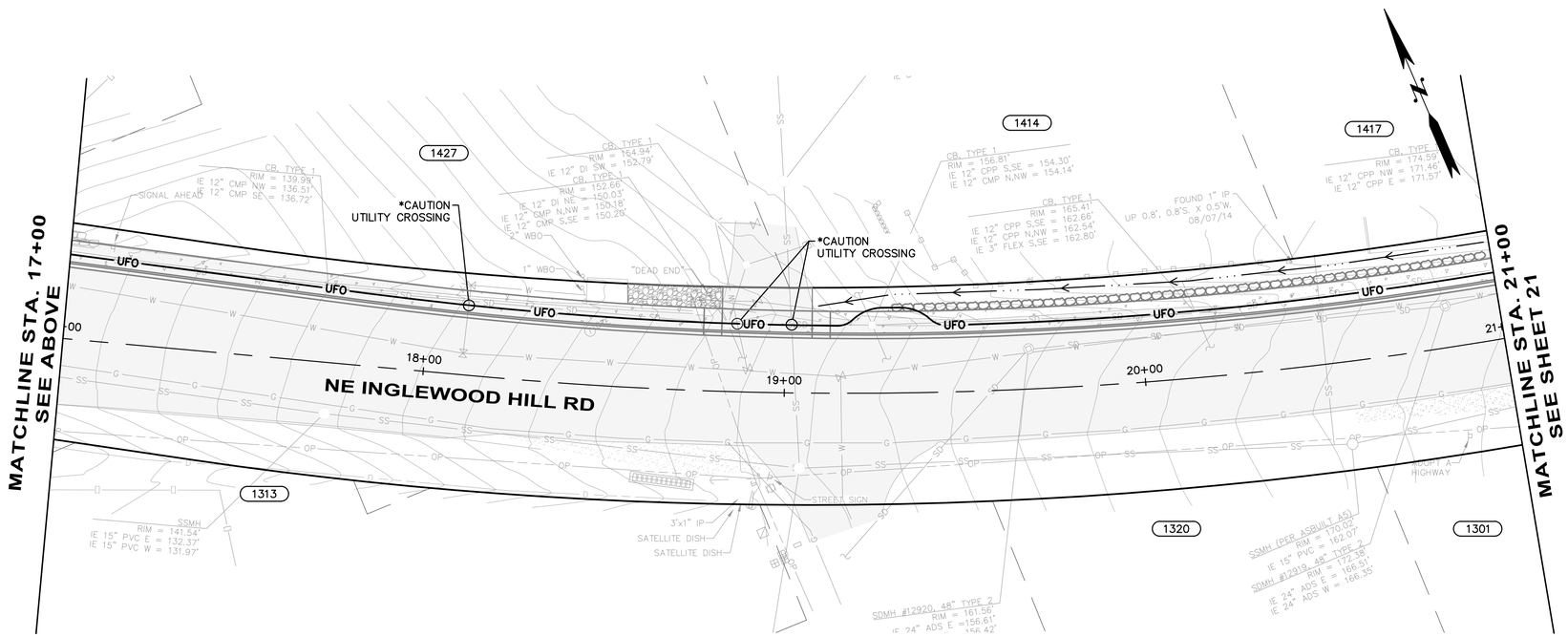


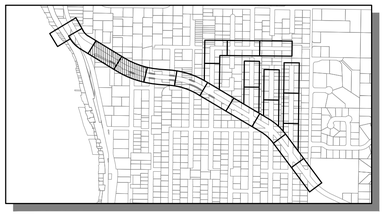
GENERAL NOTES:

1. ALL ROAD CROSSING CONDUIT INSTALLATION FOR FUTURE FIBER OPTICS SHALL BE PERPENDICULAR TO THE ROAD AND SHALL BE A MINIMUM 5'–0" DEEP UNLESS OTHERWISE NOTED ON THE PLANS.
2. 2–FT MINIMUM DISTANCE BETWEEN OBSTRUCTIONS AND CONDUIT FOR FUTURE FIBER OPTICS.
3. ALL UNDERGROUND CONDUIT INSTALLATION FOR FUTURE FIBER OPTICS LONGITUDINAL TO THE ROAD AND CROSSING THE ROAD SHALL BE INSTALLED BY OPEN CUT, OR BORING. THE MINIMUM DEPTH WILL PER DETAILS ON SHEET 24.
4. CONTRACTOR SHALL NOTIFY BOTH THE ENGINEER AND THE CITY OF SAMMAMISH OF ANY PROPOSED CHANGES TO THE ALIGNMENT. ANY PROPOSED CHANGES MUST BE APPROVED.
5. ANY ROADWAY SIGNAGE OR STRIPING REMOVED OR TEMPORARILY MOVED BY THE CONTRACTOR SHALL BE RESTORED SO AS TO MEET CURRENT STANDARDS UNLESS SHOWN OTHERWISE.
6. TRENCHES AND OPEN EXCAVATION SHALL BE COVERED AND PLATED DURING NON–WORKING HOURS.
7. WHEN TRENCHING AND RESTORATION IS COMPLETE ALL ROCKS AND DEBRIS SHALL BE HAULED OFF AND LEGALLY DISPOSED.
8. CONTRACTOR SHALL FIELD ADJUST CONDUIT TO AVOID CONFLICT WITH EXISTING UTILITIES.
9. REFER TO TYPICAL TRENCHING SECTION SHEET 24.

FIBER OPTIC NOTES:

1. INSTALL PRECAST CONCRETE HANDHOLE TYPE 444–LA (48"x48"x48") WITH 44–332P (3'x3' HINGED ANTI–SLIP PLATE/LOCKING DEVICE) COVER. SEE TYPICAL TRENCH AT HANDHOLE DETAIL ON SHEET 24.
2. INSTALL TWO 2–INCH SCHEDULE 40 PVC FOR FUTURE FIBER OPTIC CABLE WITH LOCATABLE WIRE.





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INGLEWOOD HILL STORMWATER AND NON-MOTORIZED IMPROVEMENTS
FIBER OPTIC
STA. 13+00 TO STA. 21+00

10-140008
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20 SHEET OF 89

PLOTTING DATE: 4/20/2016 USER: Travis FranklinFILE NAME: P:\10-140008 Inglewood Drainage\3 CADD\Sheets\P_10-140008_UTIL01.dwg

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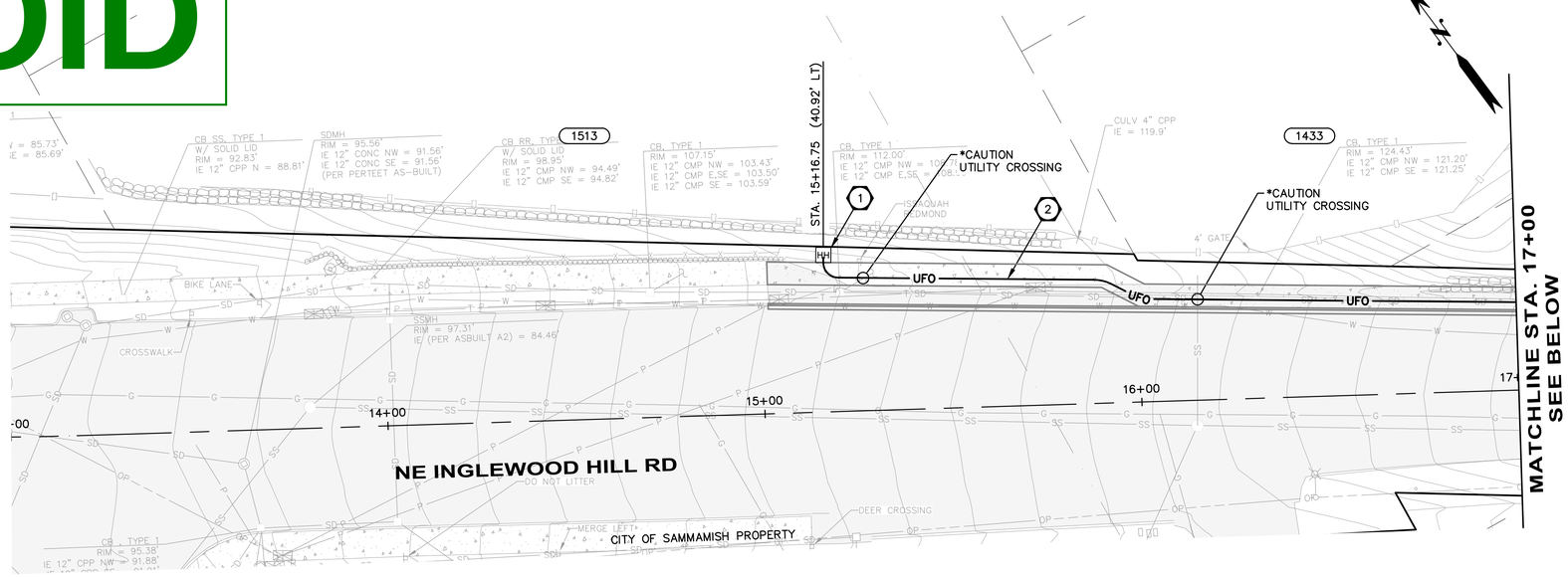
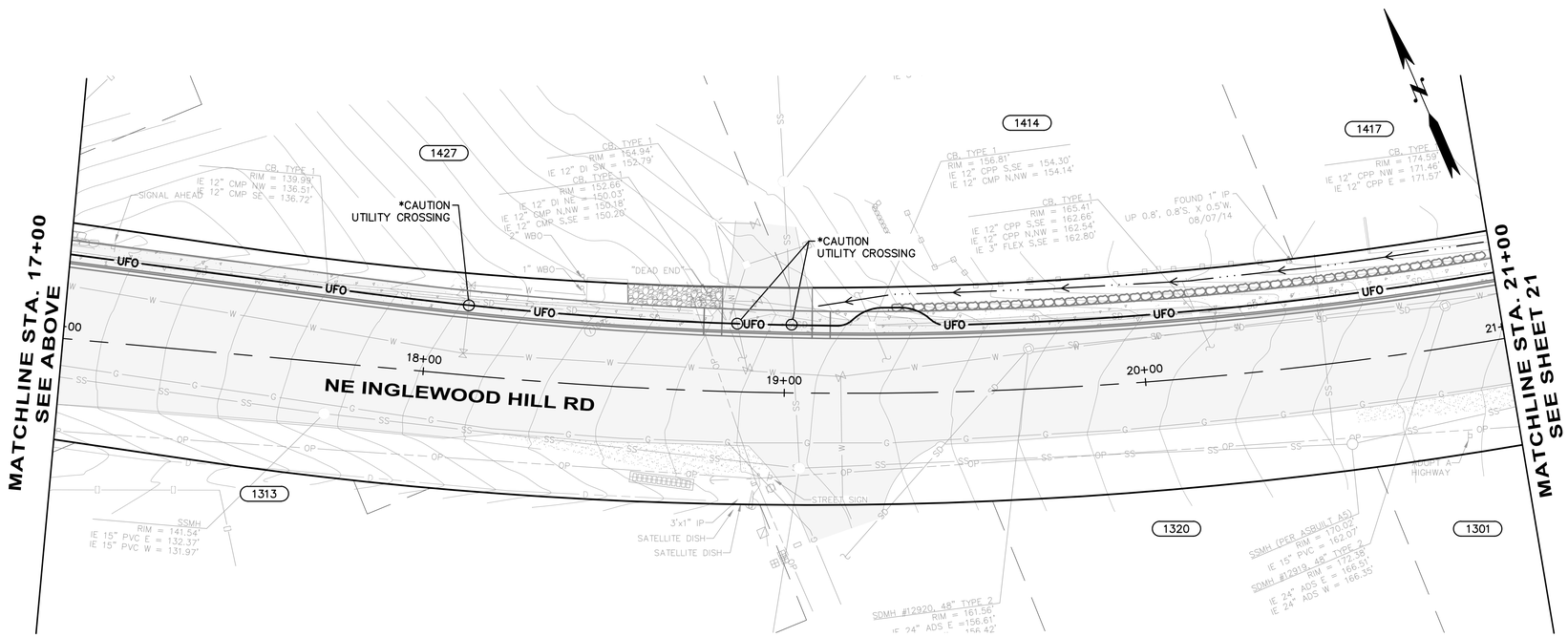
SEC. 29 , T. 25 N., R. 6 E., W.M.





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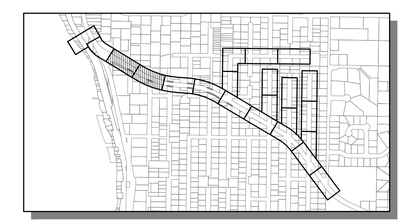


KEY MAP
SCALE: 1"=1000'

Know what's below.
Call before you dig.

LAURA RUFFNER
STATE OF WASHINGTON
43848
REGISTERED PROFESSIONAL ENGINEER
4/20/16

SCALE: 1" = 20'
0 20 40 60

SCALE BARS INDICATE SCALE OF FULL-SIZE (22 X 34 INCH) DRAWINGS. FOR REDUCED SIZE DRAWINGS ADJUST SCALE ACCORDINGLY.

NO.	DATE	BY	CKD.	REVISION

City of Sammamish Washington

OSBORN CONSULTING INCORPORATED
OSBORN CONSULTING, INC.
1800 112th Ave. NE, Suite 220E Ph (425) 451–4009
Bellevue, WA. 98004 Fax (425) 451–4901

DESIGNED BY: LCR
DRAWN BY: RDH
CHECKED BY: LAT
DATE: FEB. 2016

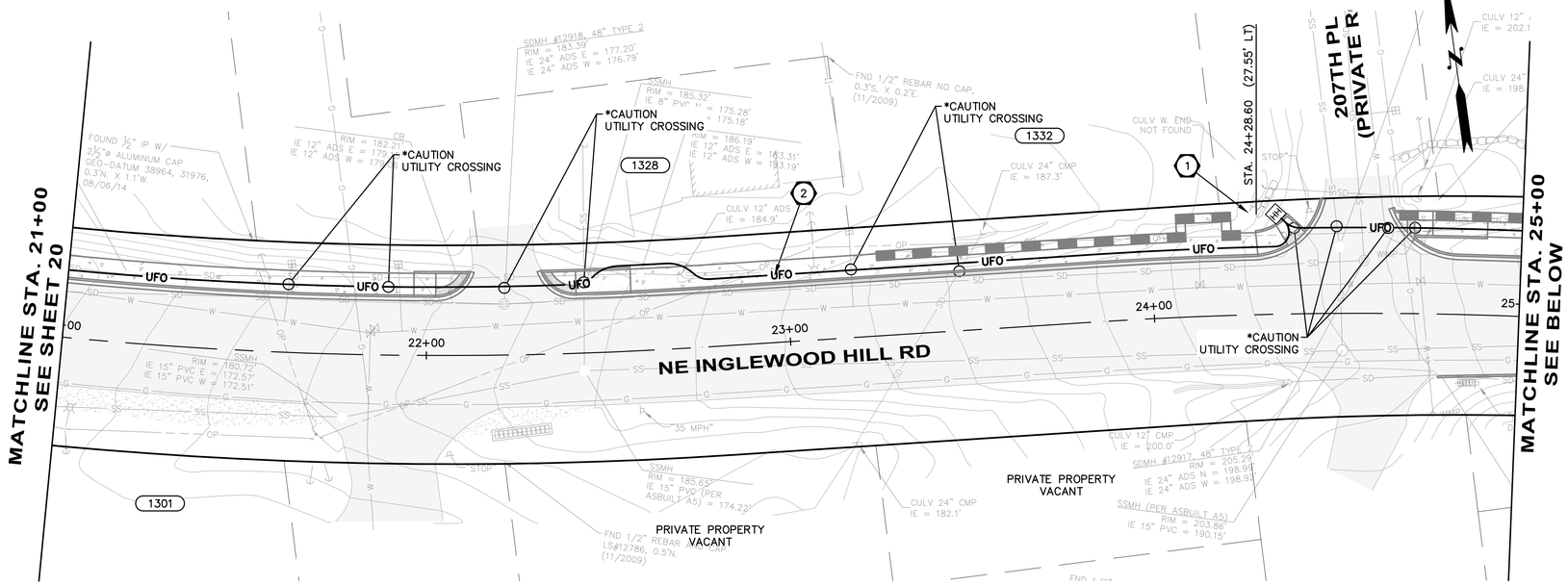
INGLEWOOD HILL STORMWATER AND NON-MOTORIZED IMPROVEMENTS
FIBER OPTIC
STA. 13+00 TO STA. 21+00

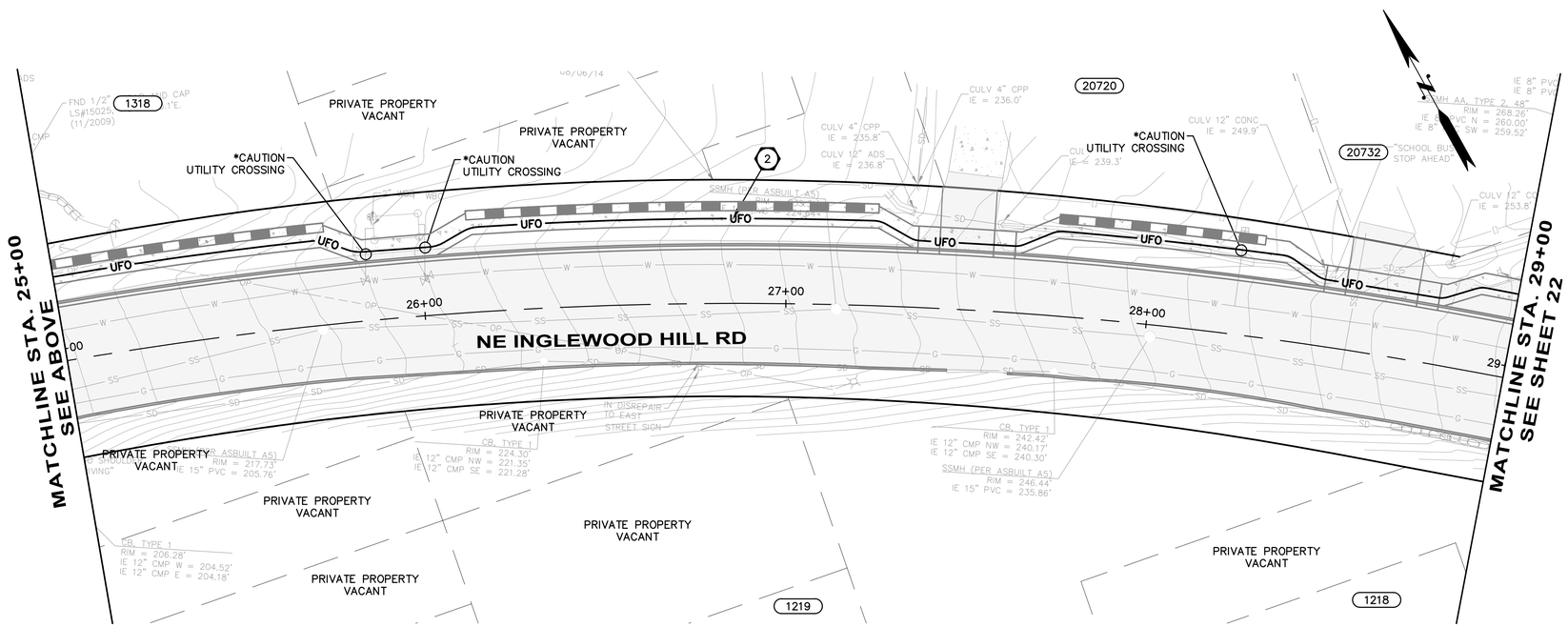
10-140008
OCI PROJECT NO.

20 SHEET OF 89

PLOTTING DATE: 4/20/2016 USER: Travis FranklirFILE NAME: P:\10–140008 Inglewood Drainage\3 CADD\Sheets\P_10–140008_UTIL01.dwg

SEC. 29 , T. 25 N., R. 6 E., W.M.





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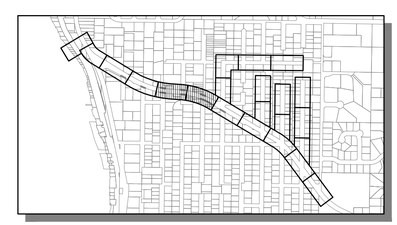

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CHECKED BY: LAT
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INGLEWOOD HILL STORMWATER AND NON-MOTORIZED IMPROVEMENTS
FIBER OPTIC
STA. 21+00 TO STA. 29+00

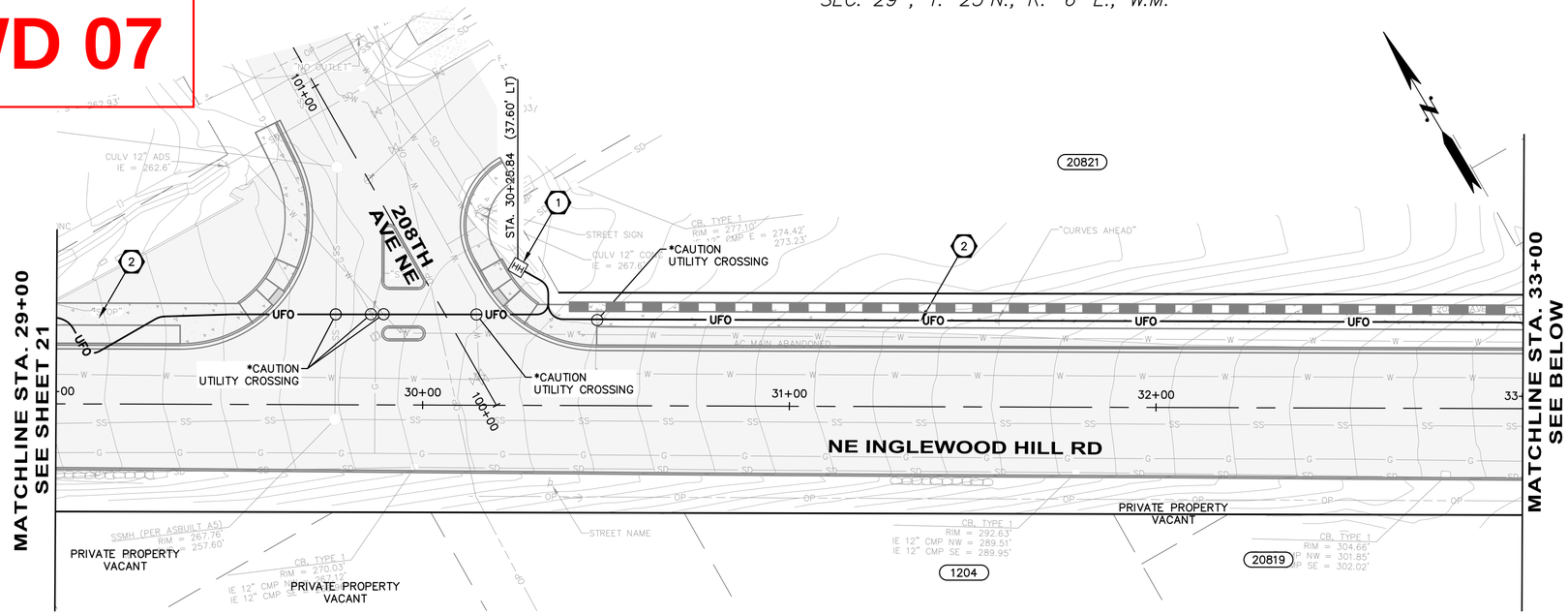
10-140008
OCI PROJECT NO.

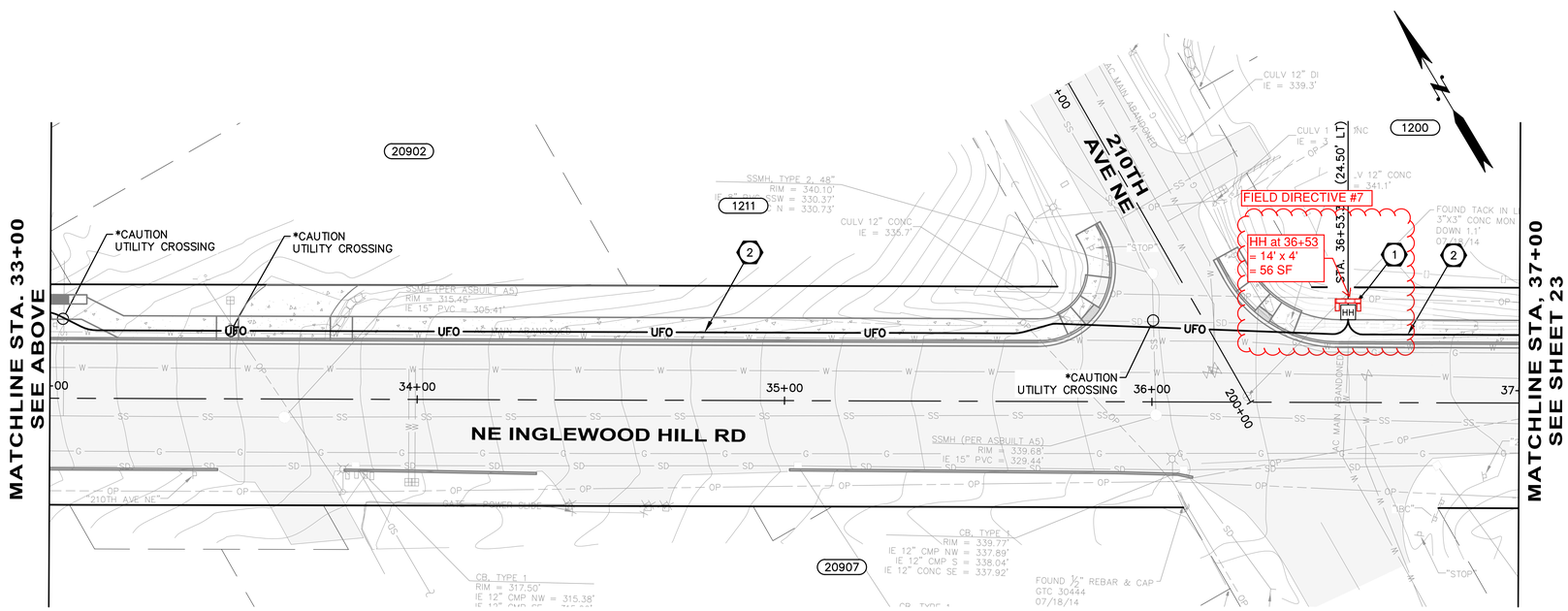
21 SHEET OF 89

PLOTTING DATE: 4/20/2016 USER: Travis Frankl FILE NAME: P:\10-140008 Inglewood Drainage\3 CADD\Sheets\P_10-140008_UTIL01.dwg

FWD 07

SEC. 29 , T. 25 N., R. 6 E., W.M.





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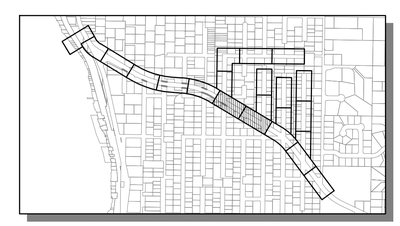

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CHECKED BY: LAT
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INGLEWOOD HILL STORMWATER AND NON-MOTORIZED IMPROVEMENTS
FIBER OPTIC
STA. 29+00 TO STA. 37+00

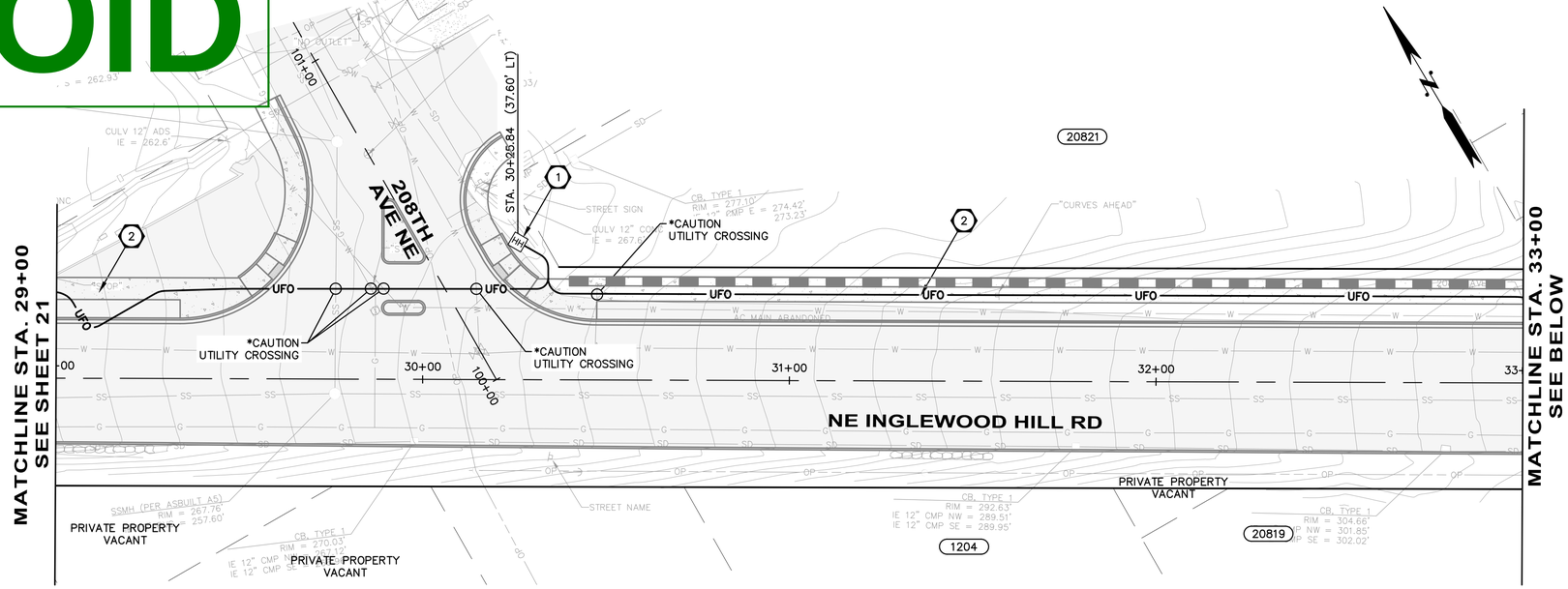
10-140008
OCI PROJECT NO.

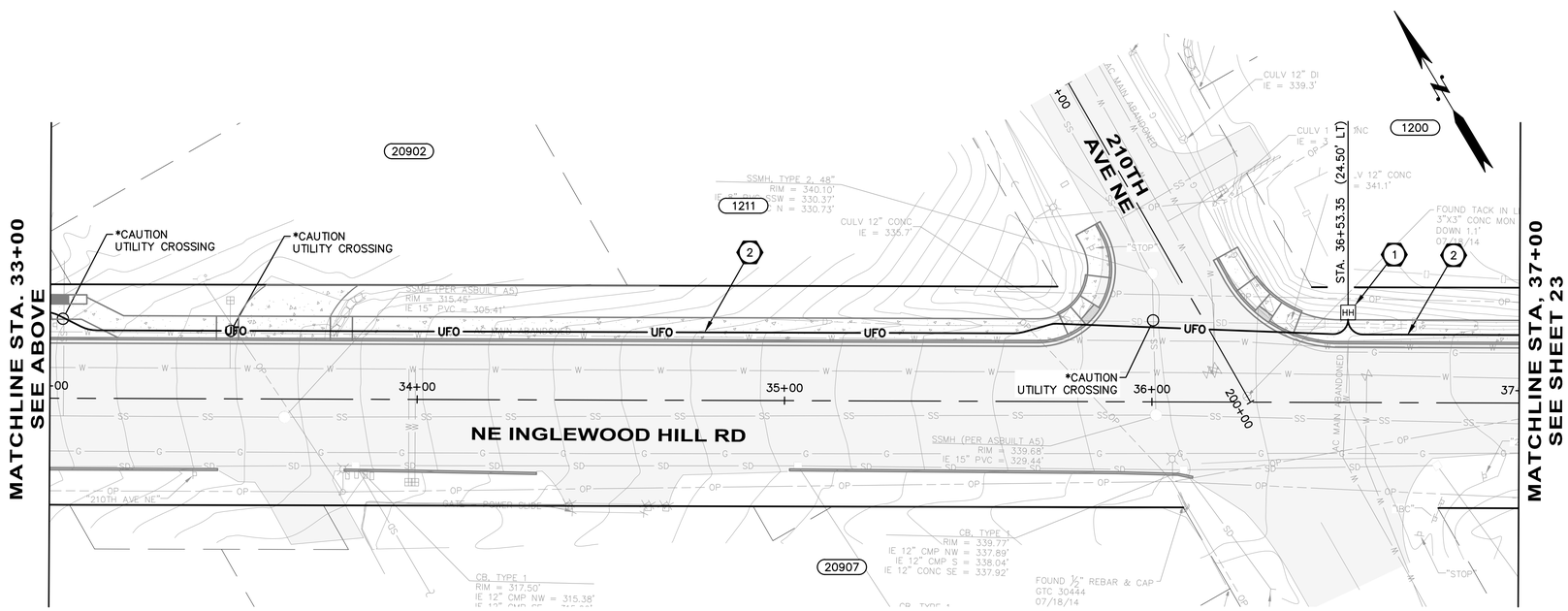
22 SHEET OF 89

PLOTTING DATE: 4/20/2016 USER: Travis FranklinFILE NAME: P:\10-140008 Inglewood Drainage\3 CADD\Sheets\P_10-140008_UTIL01.dwg

VOID

SEC. 29 , T. 25 N., R. 6 E., W.M.





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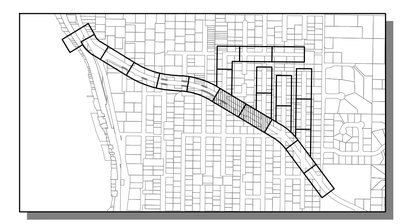

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INGLEWOOD HILL STORMWATER AND NON-MOTORIZED IMPROVEMENTS
FIBER OPTIC
STA. 29+00 TO STA. 37+00

10-140008
OCI PROJECT NO.

22 SHEET OF 89

PLOTTING DATE: 4/20/2016 USER: Travis FranklinFILE NAME: P:\10-140008 Inglewood Drainage\3 CADD\Sheets\P_10-140008_UTIL01.dwg

FWD 07

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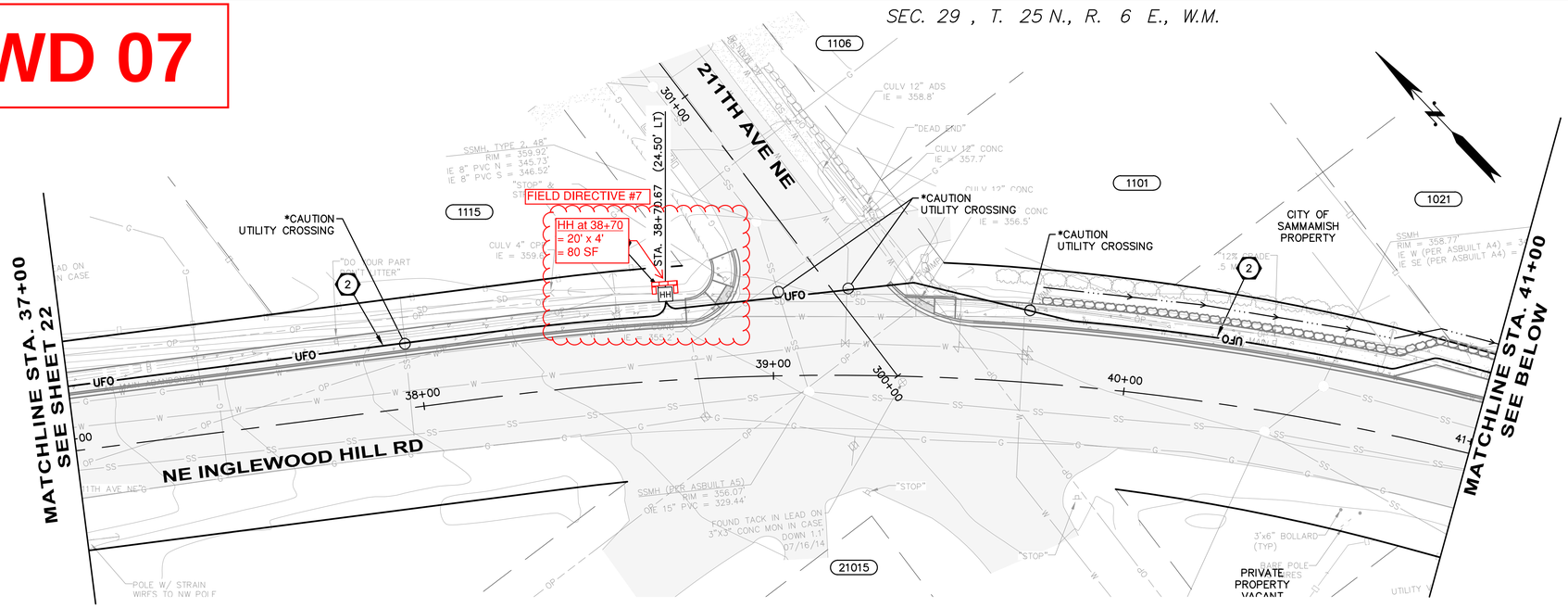

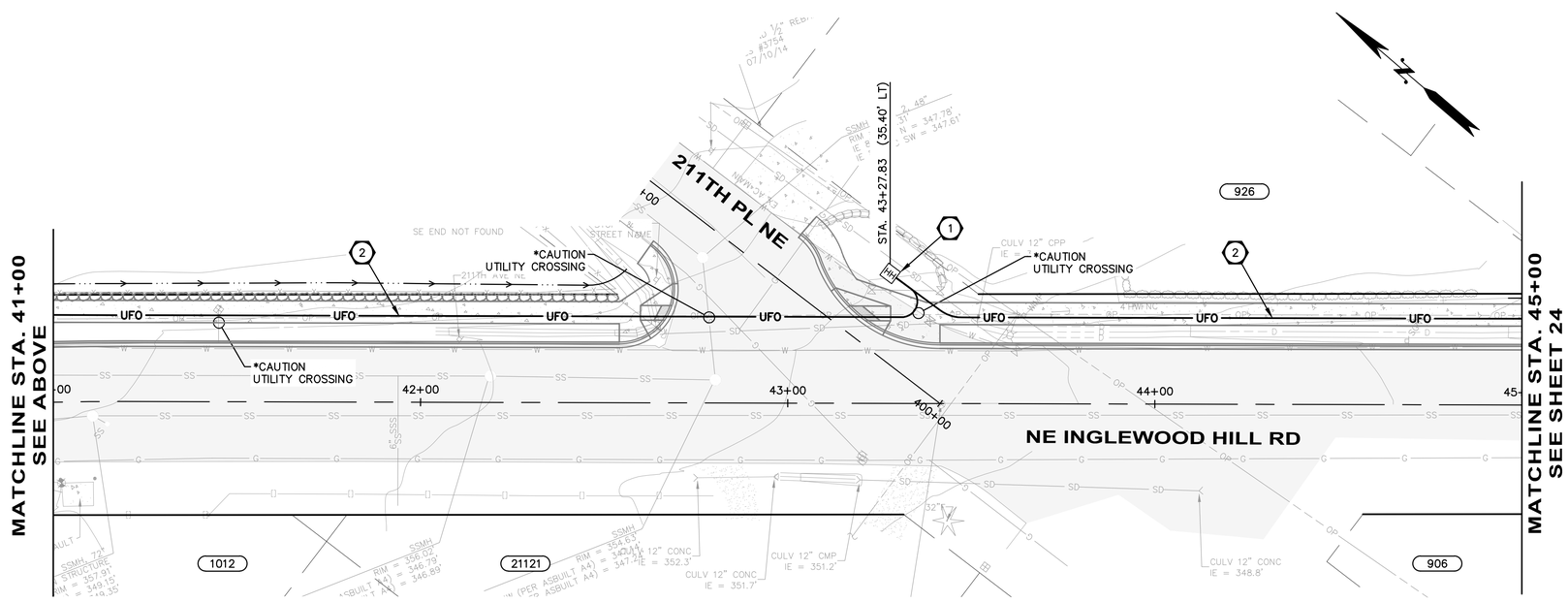

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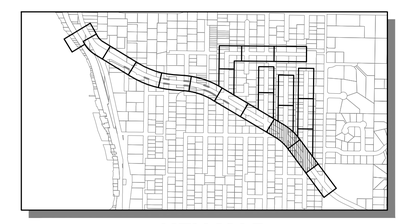

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811
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23 SHEET OF 89

PLOTTING DATE: 4/20/2016 USER: Travis FrankIFILE NAME: P:\10-140008 Inglewood Drainage\3 CADD\Sheets\P_10-140008_UTIL01.dwg

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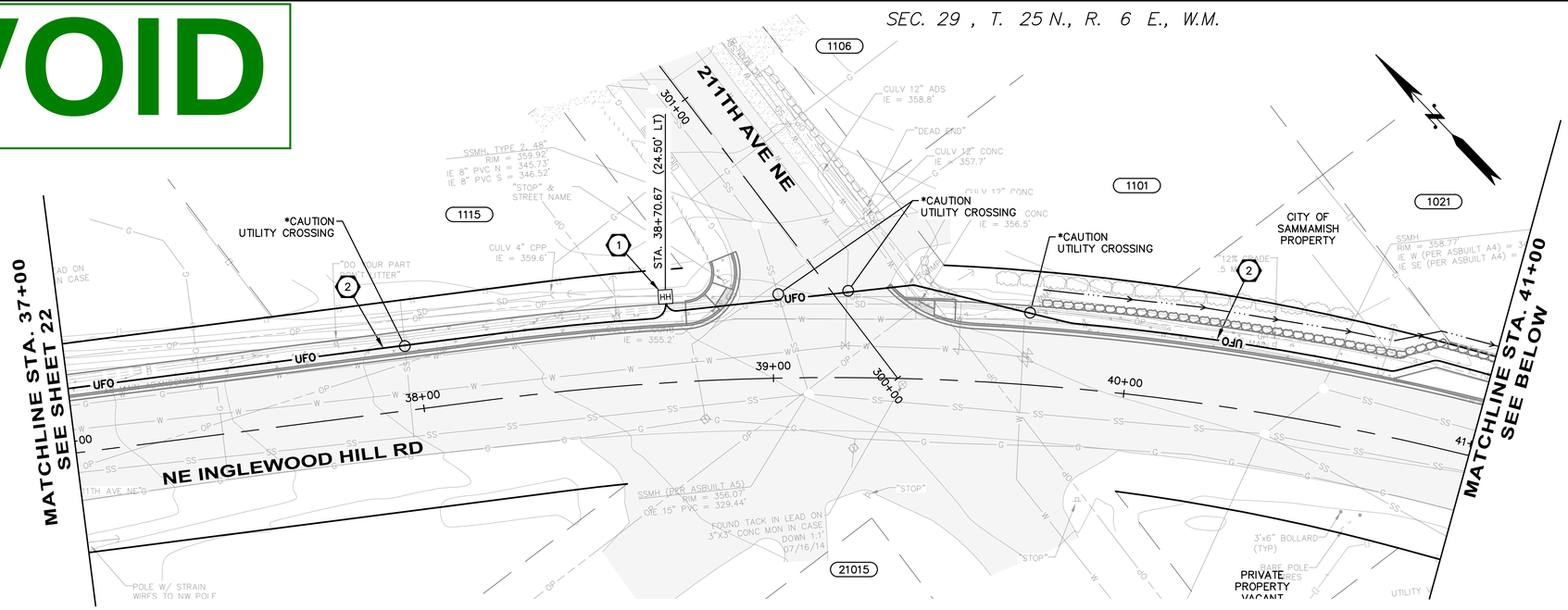

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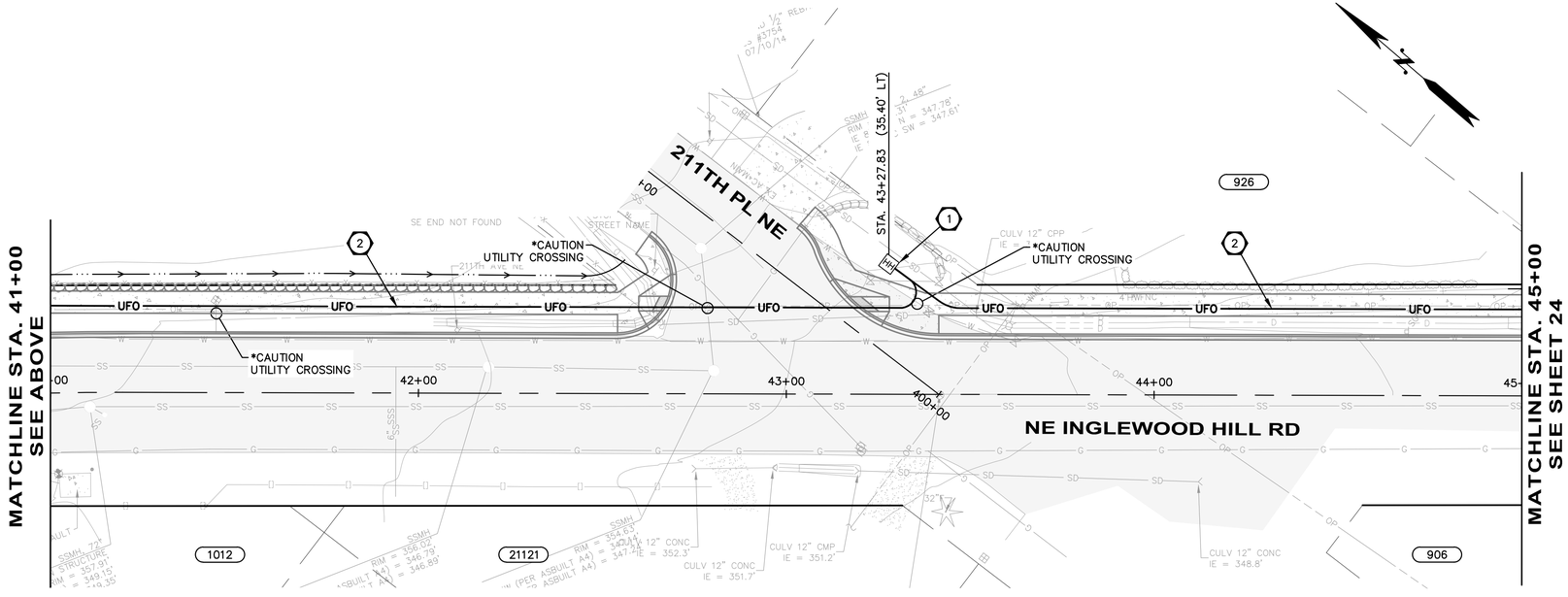

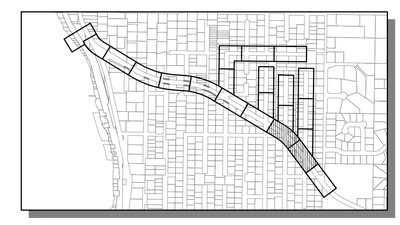

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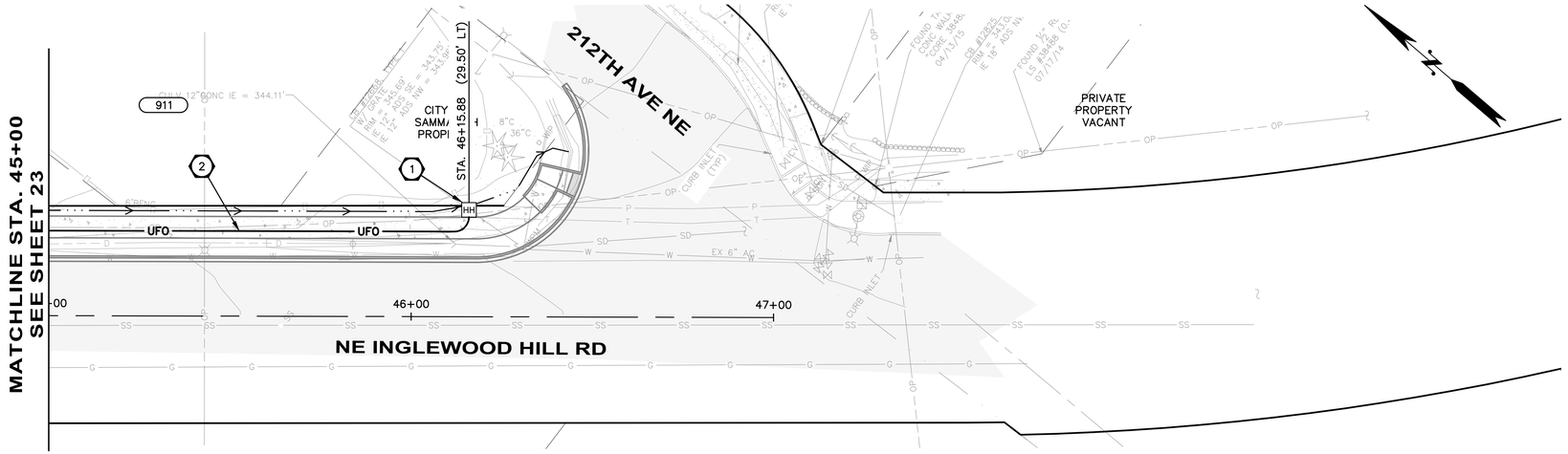

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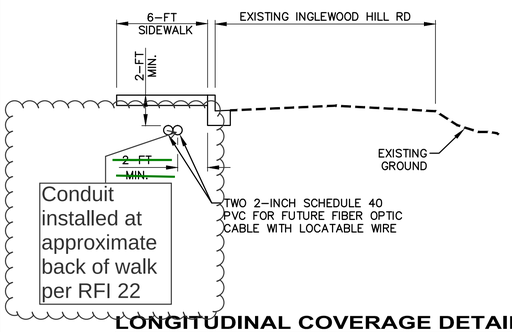
7. WHEN TRENCHING AND RESTORATION IS COMPLETE ALL ROCKS AND DEBRIS SHALL BE HAULED OFF AND LEGALLY DISPOSED.
8. CONTRACTOR SHALL FIELD ADJUST CONDUIT TO AVOID CONFLICT WITH EXISTING UTILITIES.
9. REFER TO TYPICAL TRENCHING SECTION SHEET 24.

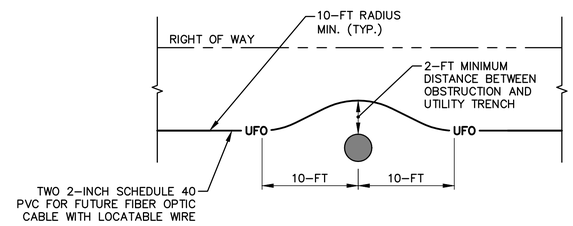
FIBER OPTIC NOTES:

1. INSTALL PRECAST CONCRETE HANDHOLE TYPE 444–LA (48"x48"x48") WITH 44–332P (3'x3' HINGED ANTI–SLIP PLATE/LOCKING DEVICE) COVER. SEE TYPICAL TRENCH AT HANDHOLE DETAIL ON SHEET 24.
2. INSTALL TWO 2–INCH SCHEDULE 40 PVC FOR FUTURE FIBER OPTIC CABLE WITH LOCATABLE WIRE.



LONGITUDINAL COVERAGE DETAIL

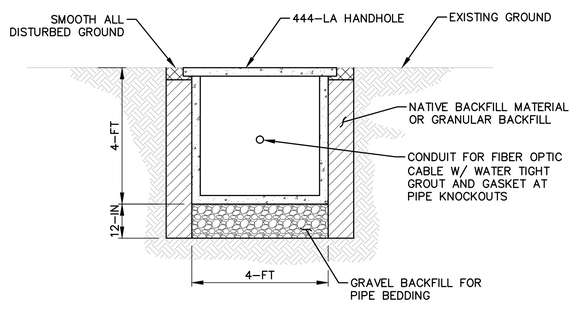
N.T.S.



NOTES:
1. FIBER OPTIC ALIGNMENT SHALL REMAIN WITHIN RIGHT OF WAY.

INSTALLATION AROUND OBSTRUCTION

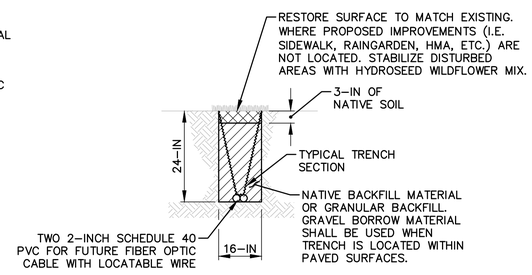
N.T.S.



NOTES:
1. SLOPE GROUND AWAY FROM HANDHOLE.
2. ALL BURIED HANDHOLES TO BE PLACED NO CLOSER THAN 6' FROM UTILITY POLES.

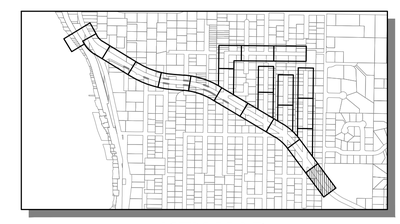
TYPICAL TRENCH AT HANDHOLE

N.T.S.



TYPICAL TRENCHING SECTION

N.T.S.



KEY MAP

SCALE: 1"=1000'

Know what's below. Call before you dig.

4/20/16

SCALE BARS INDICATE SCALE OF FULL-SIZE (22 X 34 INCH) DRAWINGS. FOR REDUCED SIZE DRAWINGS ADJUST SCALE ACCORDINGLY.

NO.	DATE	BY	CKD.	REVISION

City of Sammamish Washington

OSBORN CONSULTING INCORPORATED

OSBORN CONSULTING, INC.
1800 112th Ave. NE, Suite 220E Ph (425) 451–4009
Bellevue, WA. 98004 Fax (425) 451–4901

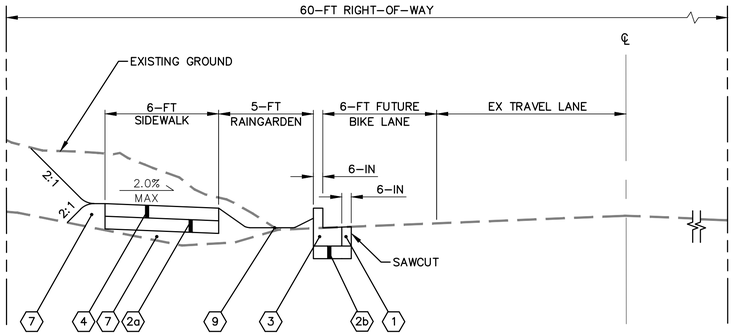
DESIGNED BY: LCR
DRAWN BY: RDH
CHECKED BY: LAT
DATE: FEB. 2016

INGLEWOOD HILL STORMWATER AND NON-MOTORIZED IMPROVEMENTS
FIBER OPTIC
STA. 45+00 TO STA. 47+00

10-140008
OCI PROJECT NO.

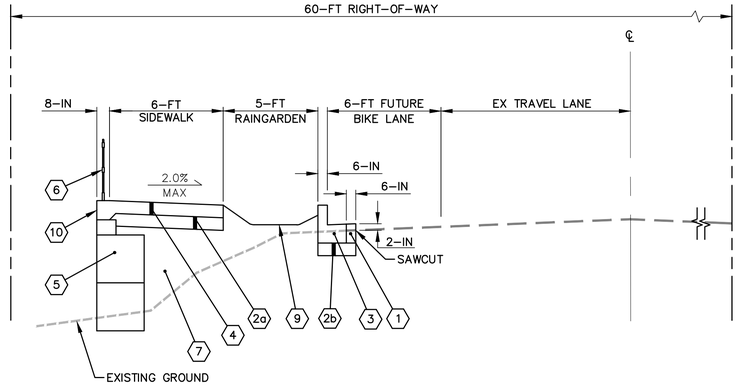
24 SHEET OF 89

PLOTTING DATE: 4/20/2016 USER: Travis Frankl FILE NAME: P:\10-140008 Inglewood Drainage\3 CADD\Sheets\P_10-140008_UTIL01.dwg



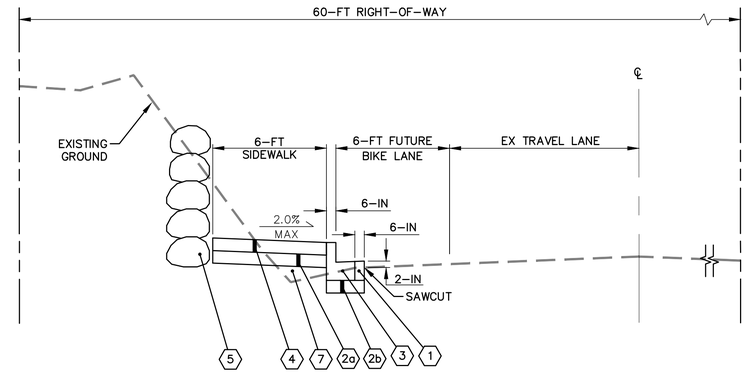
NE INGLEWOOD HILL ROAD TYPICAL ROADWAY SECTION A

N.T.S.



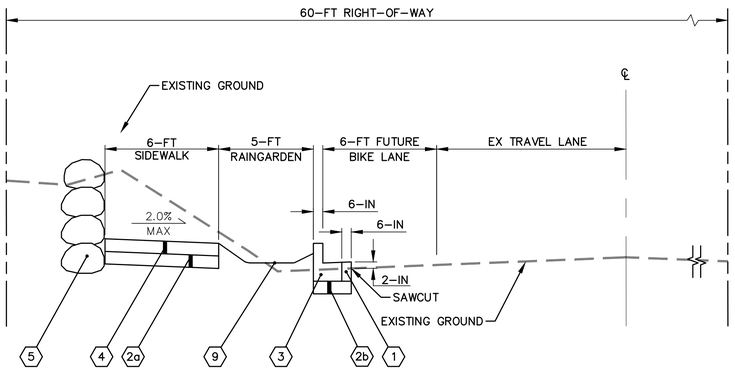
NE INGLEWOOD HILL ROAD TYPICAL ROADWAY SECTION C

N.T.S.



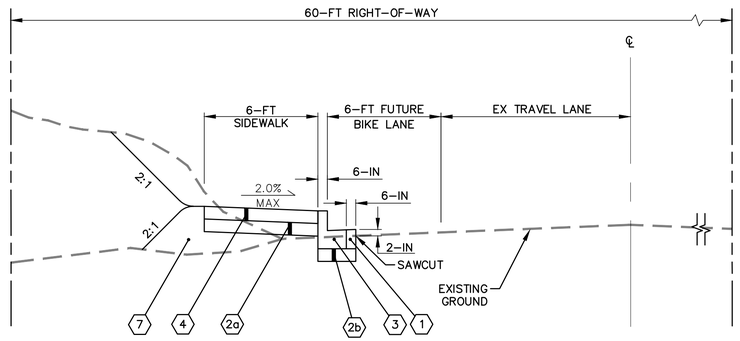
NE INGLEWOOD HILL ROAD TYPICAL ROADWAY SECTION E

N.T.S.



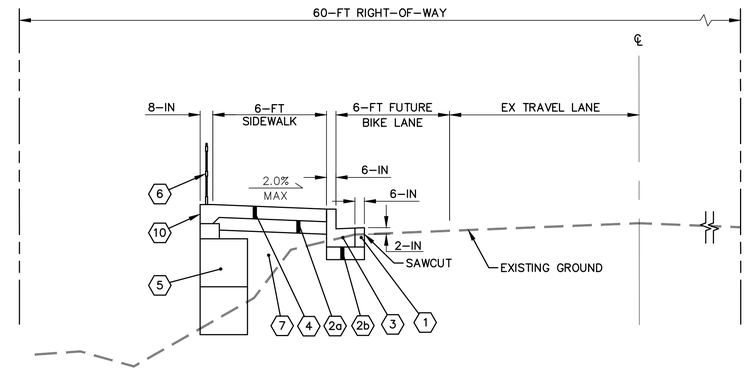
NE INGLEWOOD HILL ROAD S TYPICAL ROADWAY SECTION B

N.T.S.



NE INGLEWOOD HILL ROAD TYPICAL ROADWAY SECTION D

N.T.S.



NE INGLEWOOD HILL ROAD TYPICAL ROADWAY SECTION F

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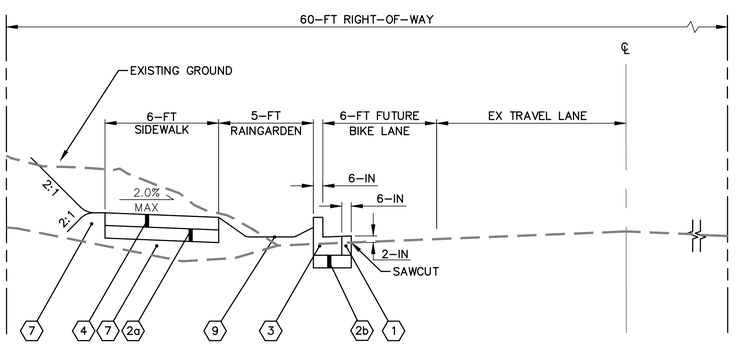
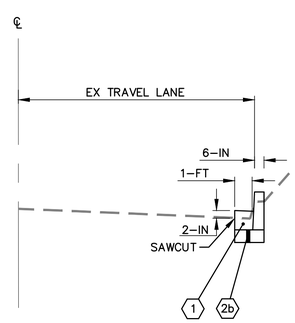


NE INGLEWOOD HILL ROAD TYPICAL ROADWAY SECTION H

N.T.S.



NE INGLEWOOD HILL ROAD TYPICAL ROADWAY SECTION G

N.T.S.

ROADWAY SECTION STATIONS

START STATION	END STATION	ROAD SECTION
15+01.73	15+40.00	A
15+40.00	15+90.21	H
16+00.00	19+29.09	D
19+29.09	20+99.96	E
20+99.96	23+25.00	D
23+25.00	24+24.22	F
24+80.50	25+74.38	C
25+83.00	26+04.37	D
26+13.00	27+25.00	C
27+34.39	27+63.99	D
27+74.00	28+30.00	C
28+45.93	28+80.42	D
28+90.03	29+33.80	H
30+40.00	33+10.00	C
33+10.00	35+68.93	D
36+50.91	38+76.12	D
39+43.53	40+74.29	E
40+85.24	42+55.90	B
43+41.42	46+42.00	B

GENERAL NOTES:

1. ALL DEPTHS SHOWN ARE COMPACTED DEPTHS.

(#) TYPICAL SECTION NOTES:

1. 6-IN HMA CL. 1/2-IN PG 64-22
2. a. 4-IN CRUSHED SURFACING TOP COURSE
   b. 5-IN CRUSHED SURFACING BASE COURSE AND 2-IN CRUSHED SURFACING TOP COURSE
3. CEMENT CONCRETE TRAFFIC CURB AND GUTTER PER WSDOT STANDARD PLAN F-10.12-03.
4. CEMENT CONCRETE SIDEWALK PER WSDOT STANDARD PLAN F-30.10-03. 4-IN 4,000 PSI CONCRETE STRENGTH.
5. RETAINING WALL, SEE SHEETS 54 – 62 WALL PLAN AND PROFILES, AND DETAILS.
6. PEDESTRIAN RAILING, SEE SHEET 26 FOR DETAILS.
7. GRAVEL BORROW INCLUDING HAUL.
8. NOT USED.
9. RAINGARDEN PER DETAIL ON SHEET 26.
10. SEE CURB FACING DETAIL ON SHEET 62.
11. CEMENT CONCRETE TRAFFIC CURB PER WSDOT STANDARD PLAN F-10.12-03.

4/20/16

SCALE BARS INDICATE SCALE OF FULL-SIZE (22 X 34 INCH) DRAWINGS. FOR REDUCED SIZE DRAWINGS ADJUST SCALE ACCORDINGLY.

NO.	DATE	BY	CKD.	REVISION

City of Sammamish Washington

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Bellevue, WA. 98004 Fax (425) 451-4901

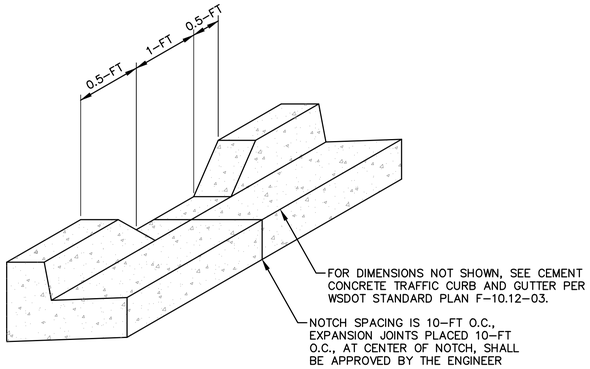
DESIGNED BY: LCR
DRAWN BY: RDH
CHECKED BY: LAT
DATE: FEB. 2016

INGLEWOOD HILL STORMWATER AND NON-MOTORIZED IMPROVEMENTS
TYPICAL ROADWAY SECTIONS
NE INGLEWOOD HILL RD

10-140008
OCI PROJECT NO.

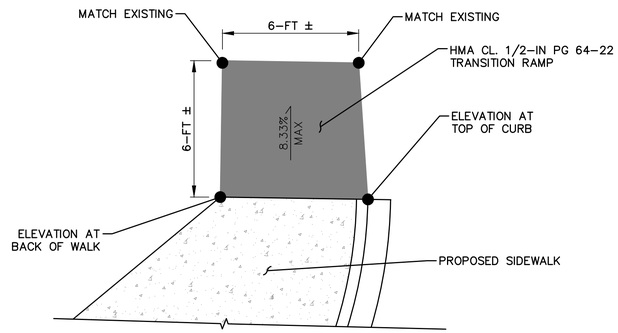
25 SHEET OF 89

PLOTTING DATE: 3/9/2016 USER: Travis FranklinFILE NAME: P:\10-140008 Inglewood Drainage\3 CADD\Sheets\P_10-140008_RDTS.dwg



CEMENT CONCRETE NOTCHED CURB AND GUTTER DETAIL

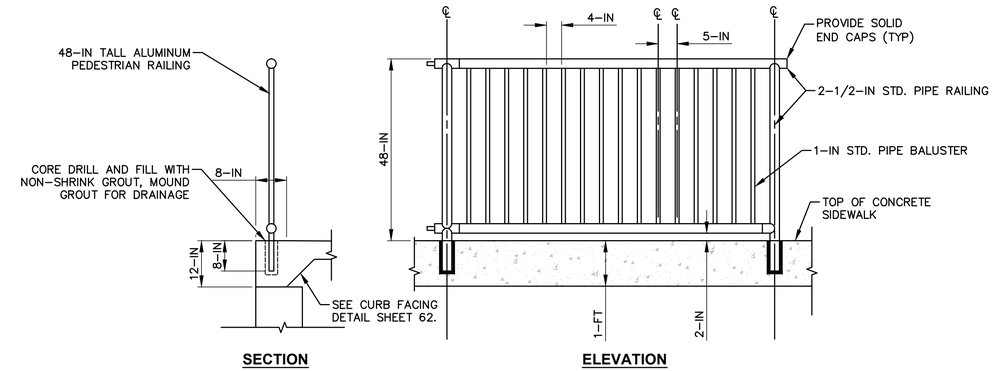
N.T.S.



NOTE:
SEE CURB RAMP PLANS FOR RAMP LOCATIONS

HMA TRANSITION RAMP DETAIL

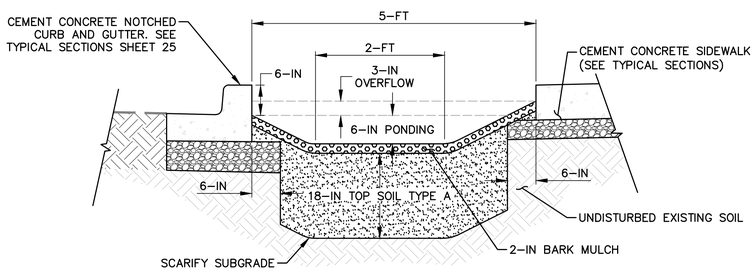
N.T.S.



NOTE:
1. SUBMIT SHOP DRAWINGS FOR APPROVAL.

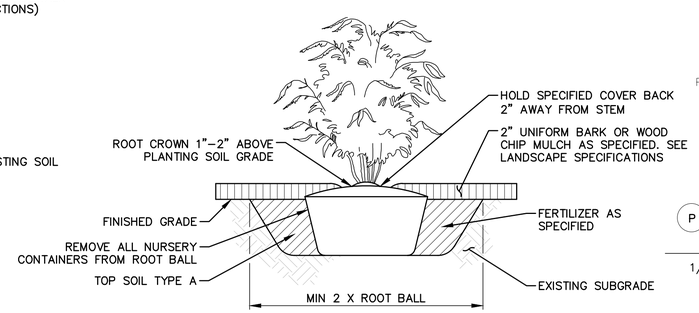
PEDESTRIAN RAILING DETAIL

N.T.S.



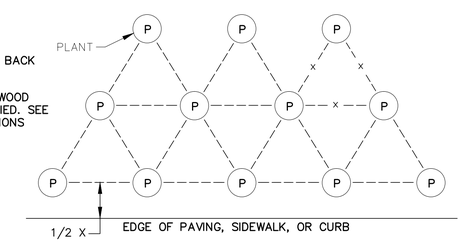
RAINGARDEN PREPARATION DETAIL

N.T.S.



SHRUB PLANTING

N.T.S.

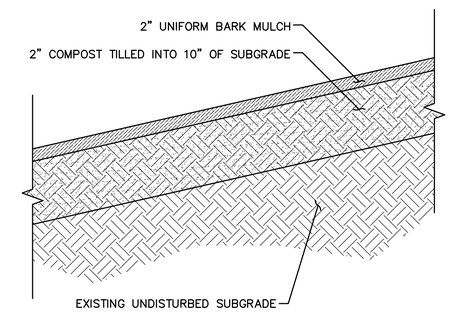


NOTE:
GROUP LIKE SHRUBS IN GROUPS OF 3 TO 5.
TREES SHOULD NOT BE PLACED NEXT TO EACH OTHER.

X = PLANT SPACING (SEE PLANTING SCHEDULE)

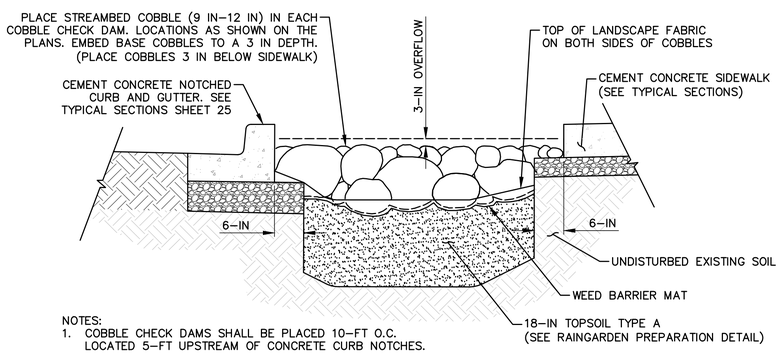
PLANT SPACING

N.T.S.



CUT/FILL SLOPE WITH BARK MULCH PREPARATION

N.T.S.



NOTES:
1. COBBLE CHECK DAMS SHALL BE PLACED 10-FT O.C. LOCATED 5-FT UPSTREAM OF CONCRETE CURB NOTCHES.
2. INSTALL LANDSCAPE EDGING IN ALL LOCATIONS BETWEEN COBBLE AND BARK MULCH (TYPICAL)

COBBLE CHECK DAM PREPARATION (IN RAINGARDEN AREA ONLY)

N.T.S.

CONSTRUCTION NOTES
1. NATIVE PLANT BEDS AND RAINGARDENS SHALL RECEIVE 18" TYPE A TOPSOIL AND 2" OF BARK MULCH.
2. SEEDED CUT/FILL SLOPES SHALL RECEIVE 3" TYPE A TOPSOIL TO FINISHED GRADE. HYDROSEEDED WITH SPECIFIED HYDROSEED MIX AS NOTED IN SPECIAL PROVISIONS.
3. CUT/FILL SLOPES WITH BARK SHALL RECEIVE 2" OF COMPOST, TILLED INTO TOP 10" OF SUBGRADE. DRESS COAST WITH UNIFORM 2" COVER OF BARK MULCH.

PLANTING SCHEDULE

SYMBOL	ABBREVATION	BOTANICAL NAME	COMMON NAME	QUANTITY	SIZE	SPACING	REMARKS
RAINGARDEN PLANT MIX							
	CC	CAREX COMANS	NEW ZEALAND HAIR SEDGE	660	1 GALLON CONTAINER	INSTALL PLANS IN EQUAL PROPORTIONS ACROSS THE SITE. SPACING SHALL BE 18" O.C. IN RANDOM GROUPS OF 5, 10, AND 15 LIKE PLANTS PER GROUP. OFFSET PLANTS 6" FROM ADJACENT SIDEWALK	FULL AND BUSHY
	ID	IRIS DOUGLASIANA	DOUGLAS IRIS	660	1 GALLON CONTAINER		FULL AND BUSHY
	MA	MAHONIA AQUIFLIUM 'COMPACTA'	COMPACT OREGON GRAPE	660	1 GALLON CONTAINER		FULL AND BUSHY
	RC	RUBUS CALCYNODES	CREEPING RASPBERRY	660	1 GALLON CONTAINER		FULL AND BUSHY

4/20/16

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NO.	DATE	BY	CKD.	REVISION

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Bellevue, WA. 98004 Fax (425) 451-4901

DESIGNED BY: LCR
DRAWN BY: RDH
CHECKED BY: LAT
DATE: FEB. 2016

INGLEWOOD HILL STORMWATER AND NON-MOTORIZED IMPROVEMENTS
TYPICAL ROADWAY SECTIONS CURB AND RAINGARDEN DETAILS

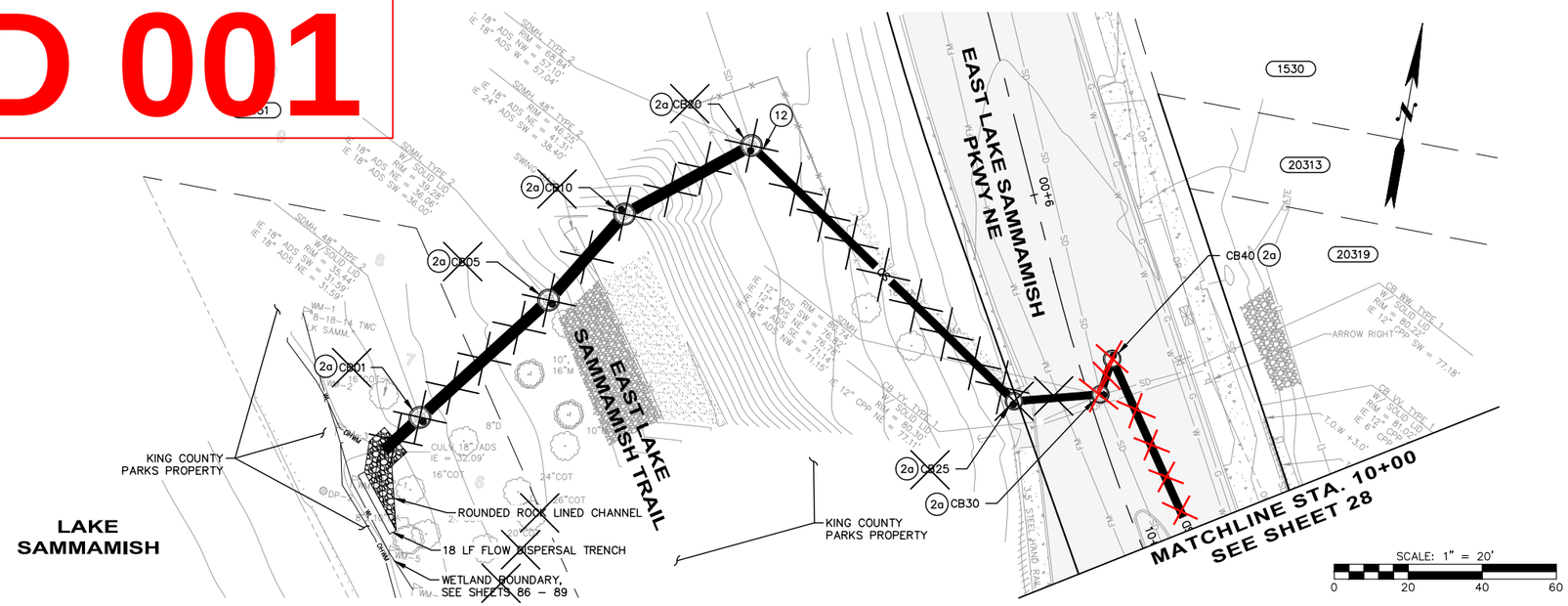
10-140008
OCI PROJECT NO.

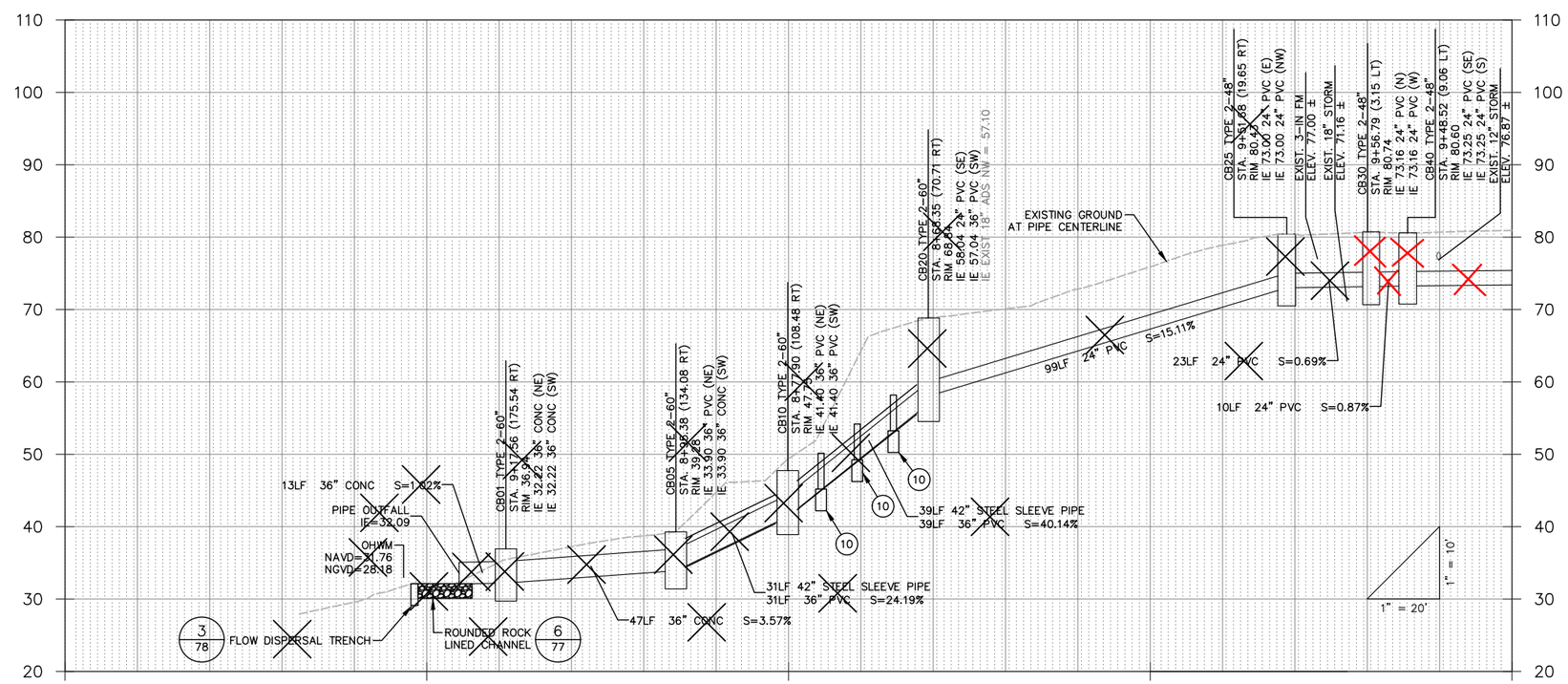
SHEET 26 OF 89

PLOTTING DATE: 3/9/2016 USER: Travis Frankl FILE NAME: P:\10-140008 Inglewood Drainage\3 CADD\Sheets\P_10-140008_RDTS.dwg

FD 001

SEC. 29 , T. 25 N., R. 6 E., W.M.





GENERAL NOTES:

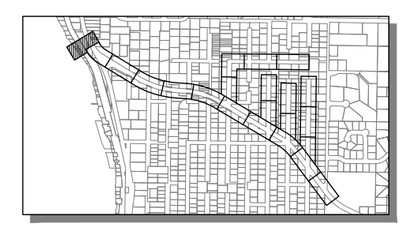
1. SEE SHEET 25 FOR TYPICAL ROADWAY SECTIONS. SEE SHEET 78 FOR TRENCH RESTORATION DETAILS.
2. SEE SHEET 26 FOR CURB AND RAINGARDEN DETAILS.
3. SEE SHEETS 49 – 53 FOR CURB RETURNS AND DRIVEWAY DETAILS.
4. ALL STATIONS AND OFFSETS FOR CURBING ARE TO FACE OF CURB, AND STRUCTURES ARE TO CENTER OF STRUCTURE, UNLESS OTHERWISE NOTED.

ROADWAY NOTES:

1. PERPENDICULAR CURB RAMP TYPE A PER WSDOT STANDARD PLAN F-40.15-02.
2. CEMENT CONCRETE TRAFFIC CURB AND GUTTER PER WSDOT STANDARD PLAN F-10.12-03.
3. CEMENT CONCRETE SIDEWALK PER MODIFIED WSDOT STANDARD PLAN F-30.10-03. MODIFICATIONS INCLUDE 10-FT EXPANSION JOINT SPACING AND 5-FT BROOMED FINISH SPACING.
4. RETAINING WALL, SEE SHEETS 54 – 62 FOR WALL PLAN AND PROFILES.
5. CEMENT CONCRETE DRIVEWAY ENTRANCE TYPE 1 PER WSDOT STANDARD PLAN F-80.10-03.
6. TYPE PARALLEL A CURB RAMP PER WSDOT STANDARD PLAN F-40.12-02.
7. CEMENT CONCRETE CURB AND GUTTER PAN PER WSDOT STANDARD PLAN F-10.16-00.
8. COMBINATION CURB RAMP PER WSDOT STANDARD PLAN F-40.14-02.
9. HMA TRANSITION RAMP PER DETAIL ON SHEET 26.
10. CEMENT CONCRETE NOTCHED CURB AND GUTTER PER DETAIL ON SHEET 26.
    a. curb inlet opening location per detail sheet 77.
11. TYPE PARALLEL B CURB RAMP PER WSDOT STANDARD PLAN F-40.12-02.
12. CEMENT CONCRETE TRAFFIC CURB PER WSDOT STANDARD PLAN F-10.12-03. SEE SECTION G, SHEET 25.
13. SINGLE DIRECTION CURB RAMP PER WSDOT STANDARD PLAN F-40.16-02.
14. 3/8-IN PRE-MOLDED JOINT FILLER PER WSDOT STANDARD PLAN F-30.10-03.

DRAINAGE NOTES:

1. CONCRETE INLET PER WSDOT STANDARD PLAN B-25.60-00.
2. CATCH BASIN TYPE 2 PER WSDOT STANDARD PLAN B-10.20-01
   a. Circular Frame (Ring) and Cover per WSDOT Standard Plan B-30.70-03 with solid locking lid.
   b. Rectangular Vaned Grate per WSDOT Standard Plans B-30.30-01 and B-30.10-01.
3. MODULAR WETLAND SYSTEM PER DETAIL SHEETS 63 – 69, AND 77.
4. EXTEND EXISTING CULVERT PER DETAIL SHEET 77.
5. SAND FILTER VAULT SYSTEM PER DETAILS ON SHEETS 72 – 76.
6. DITCH MAINTENANCE PER SPECIFICATION 2-03.
7. FIELD ADJUST EXISTING FLEXIBLE WATER SERVICE LINE AS NEEDED.
8. 12 IN. DIAM. NYLOPLAST-ADS DRAIN BASIN WITH DOME GRATE PER DETAIL ON SHEET 70 AND 77. FIELD FIT AT LOCALIZED LOW POINT WITHIN 5-FT RADIUS OF THE LOCATION SHOWN ON PLAN.
9. CATCH BASIN TYPE 2 FLOW SPLITTER WITH SOLID LID PER DETAIL 1 SHEET 79.
10. PIPE ANCHOR PER DETAIL SHEET 78.
11. RECTANGULAR VANED GRATE PER WSDOT STANDARD PLAN B-30.30-01.
12. CONNECTION TO DRAINAGE STRUCTURE PER WSDOT STANDARD SPECIFICATION 7-05.3(3).
13. CDS PRE-TREATMENT UNIT PER DETAIL SHEET 71.
14. CLEAN EXISTING CULVERT PER WSDOT STANDARD SPECIFICATION 7-07.
15. CULVERT END PROTECTION, 2-IN TO 4-IN ROCKS PER SPECIFICATION 8-15.
16. RAINGARDEN PER DETAIL SHEET 26.
17. INSTALL EXISTING CB FLOW SPLITTER PER DETAIL 2, SHEET 79.
18. GRASS-LINED V-DITCH PER DETAIL SHEET 78.



KEY MAP
SCALE: 1"=1000'

Know what's below.
Call before you dig.

LAURA RUPPERT STATE OF WASHINGTON 43848 REGISTERED PROFESSIONAL ENGINEER
4/20/16

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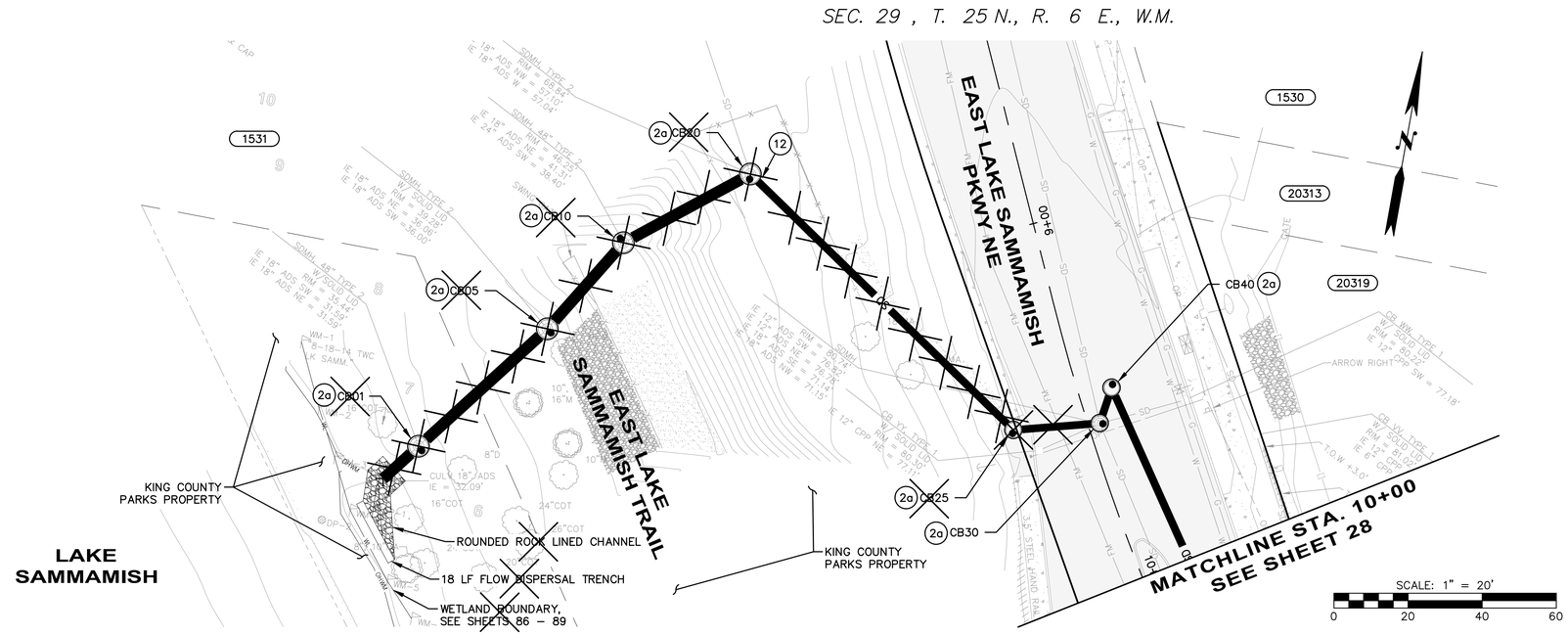
DESIGNED BY: LCR
DRAWN BY: RDH
CHECKED BY: LAT
DATE: FEB. 2016

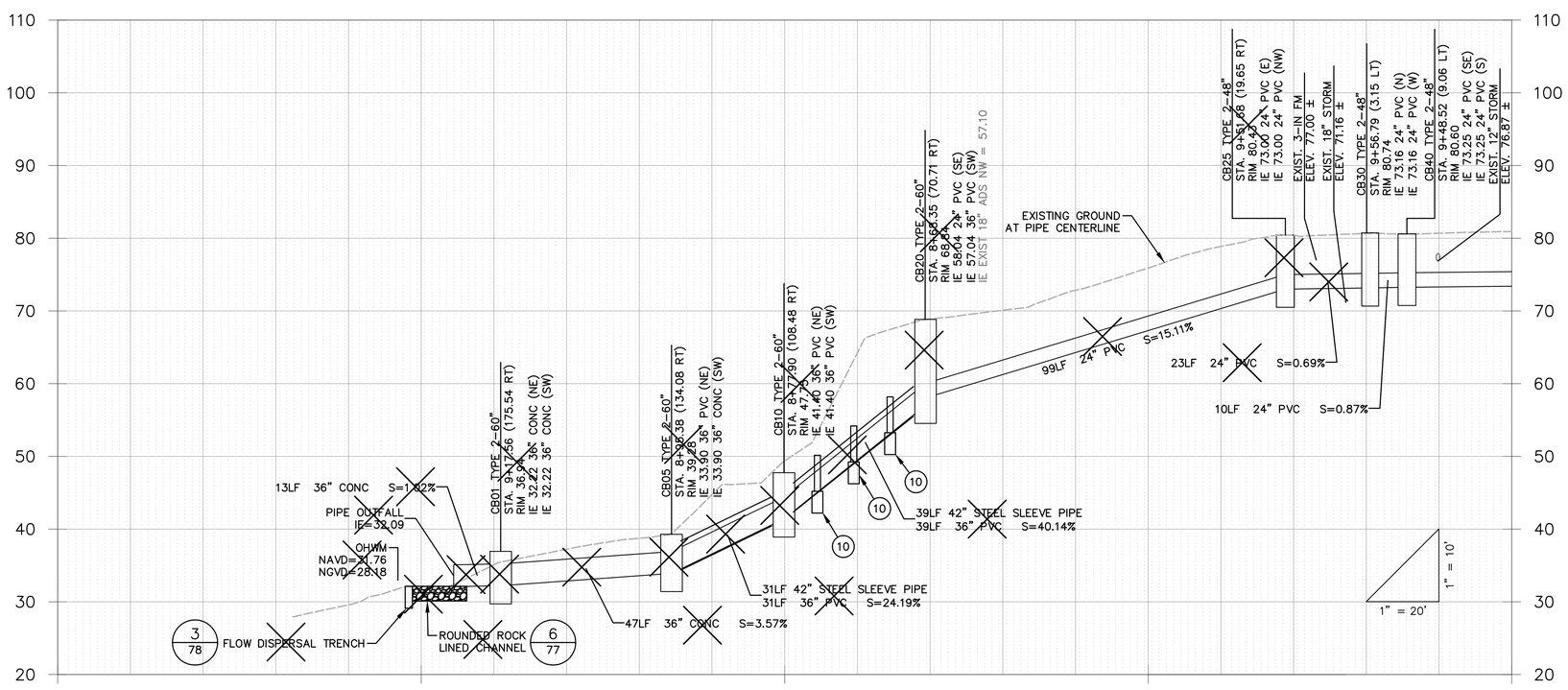
INGLEWOOD HILL STORMWATER AND NON-MOTORIZED IMPROVEMENTS
ROADWAY AND DRAINAGE BEGINNING TO STA. 10+00

10-140008
OCI PROJECT NO.

27 SHEET OF 89

PLOTTING DATE: 4/20/2016 USER: Travis FranklinFILE NAME: P:\10-140008 Inglewood Drainage\3 CADD\Sheets\P_10-140008_PP01.dwg





GENERAL NOTES:

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2. SEE SHEET 26 FOR CURB AND RAINGARDEN DETAILS.
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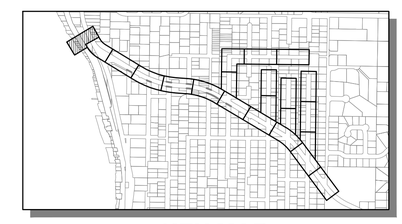


KEY MAP
SCALE: 1"=1000'

811 Know what's below. Call before you dig.

LARA RUPPERT STATE OF WASHINGTON 43848 REGISTERED PROFESSIONAL ENGINEER
4/20/16

SCALE BARS INDICATE SCALE OF FULL-SIZE (22 X 34 INCH) DRAWINGS. FOR REDUCED SIZE DRAWINGS ADJUST SCALE ACCORDINGLY.

NO.	DATE	BY	CKD.	REVISION

City of Sammamish Washington

OSBORN CONSULTING INCORPORATED
OSBORN CONSULTING, INC.
1800 112th Ave. NE, Suite 220E Ph (425) 451-4009
Bellevue, WA. 98004 Fax (425) 451-4901

DESIGNED BY: LCR
DRAWN BY: RDH
CHECKED BY: LAT
DATE: FEB. 2016

INGLEWOOD HILL STORMWATER AND NON-MOTORIZED IMPROVEMENTS
ROADWAY AND DRAINAGE
BEGINNING TO STA. 10+00

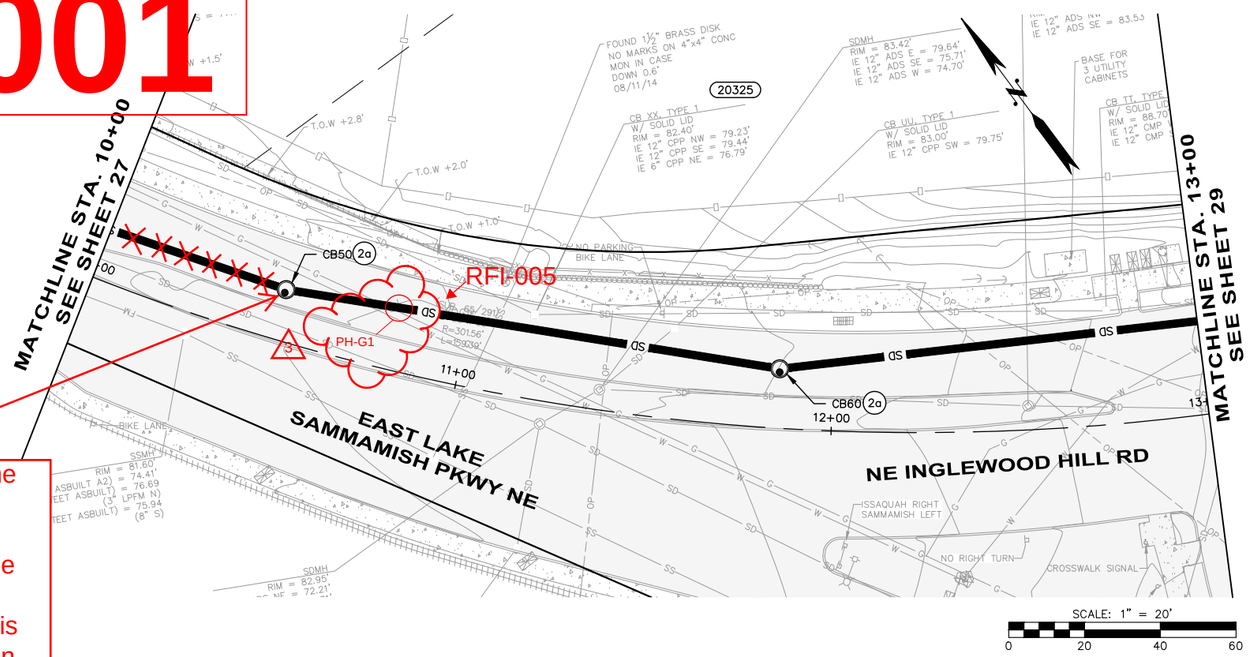
10-140008
OCI PROJECT NO.

27 SHEET OF 89

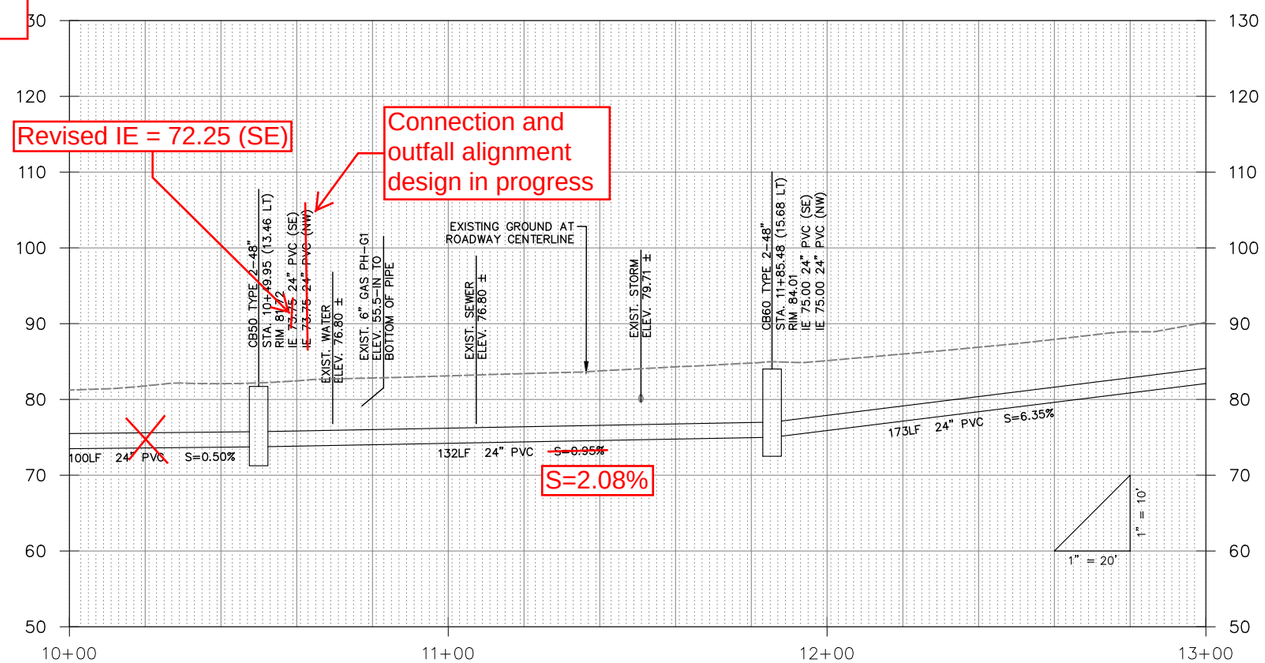
PLOTTING DATE: 4/20/2016 USER: Travis Frankl FILE NAME: P:\10-140008 Inglewood Drainage\3 CADD\Sheets\P_10-140008_PP01.dwg

FD 001

SEC. 29 , T. 25 N., R. 6 E., W.M.



CB50 is start of storm line construction and will not have a downstream connection (i.e. storm line dead end) until revised outfall alignment design is completed in coordination with King County.



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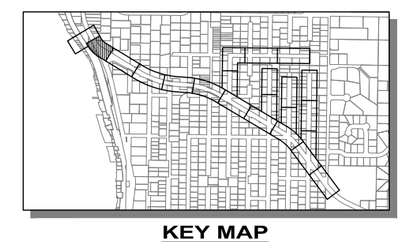

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4/20/16

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NO.	DATE	BY	CKD.	REVISION
3	7/7/16	TNF	LR	RFI-005 UTILITY ADJUSTMENTS

City of Sammamish Washington

OSBORN CONSULTING INCORPORATED
OSBORN CONSULTING, INC.
1800 112th Ave. NE, Suite 220E Ph (425) 451-4009
Bellevue, WA. 98004 Fax (425) 451-4901

DESIGNED BY: LCR
DRAWN BY: RDH
CHECKED BY: LAT
DATE: FEB. 2016

INGLEWOOD HILL STORMWATER AND NON-MOTORIZED IMPROVEMENTS
ROADWAY AND DRAINAGE
STA. 10+00 TO STA. 13+00

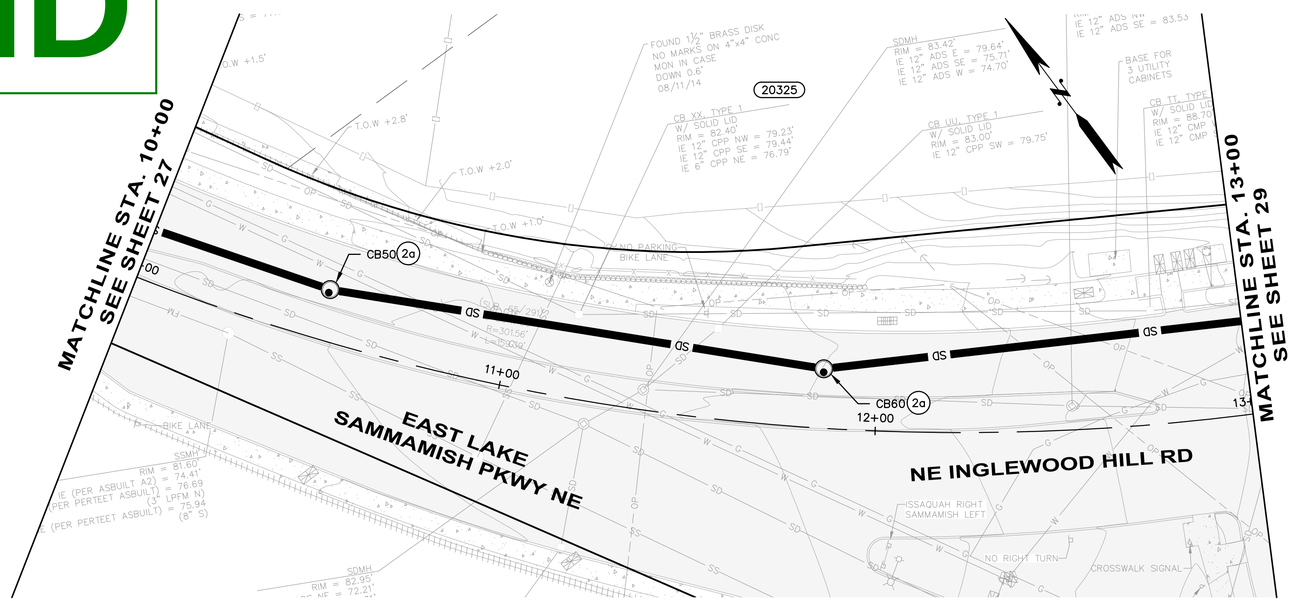
10-140008
OCI PROJECT NO.

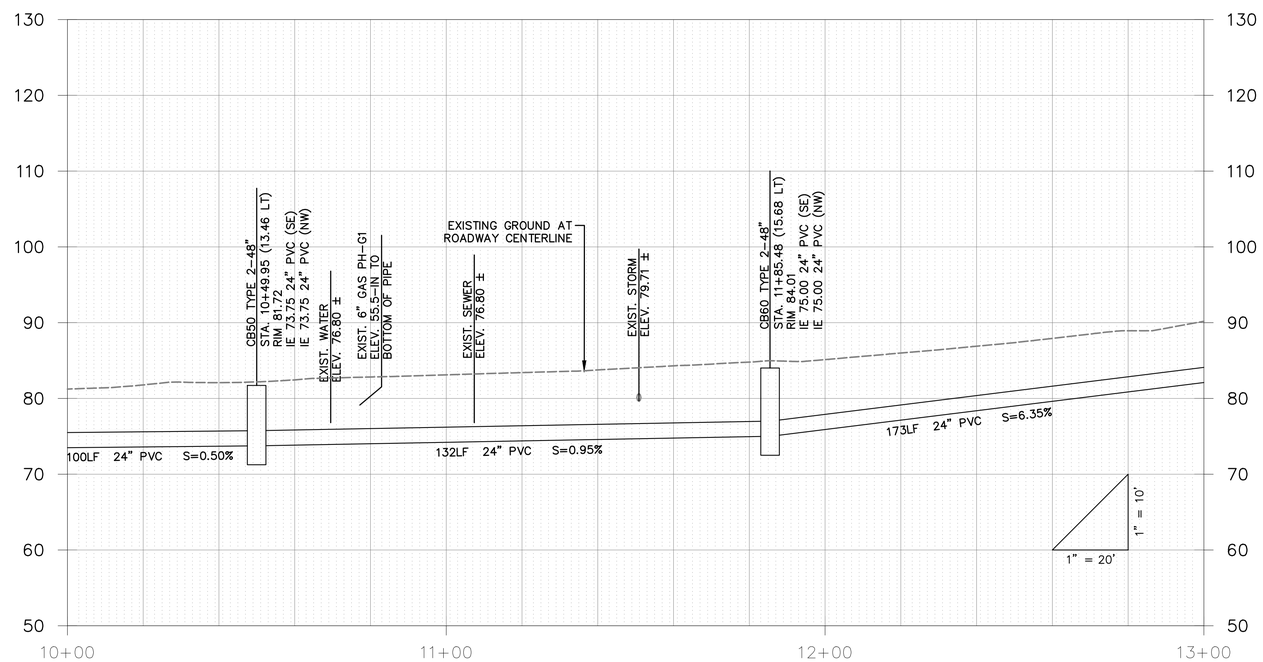
SHEET 28 OF 89

PLOTTING DATE: 4/20/2016 USER: Travis FranklinFILE NAME: P:\10-140008 Inglewood Drainage\3 CADD\Sheets\P_10-140008_PP01.dwg

VOID

SEC. 29 , T. 25 N., R. 6 E., W.M.





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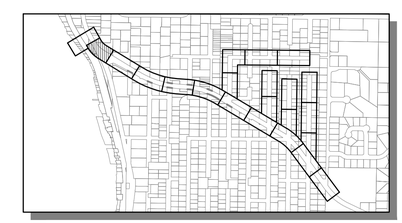

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43848
REGISTERED
PROFESSIONAL ENGINEER
4/20/16

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NO.	DATE	BY	CKD.	REVISION

City of Sammamish Washington

OSBORN CONSULTING INCORPORATED

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1800 112th Ave. NE, Suite 220E Ph (425) 451-4009
Bellevue, WA. 98004 Fax (425) 451-4901

DESIGNED BY: LCR
DRAWN BY: RDH
CHECKED BY: LAT
DATE: FEB. 2016

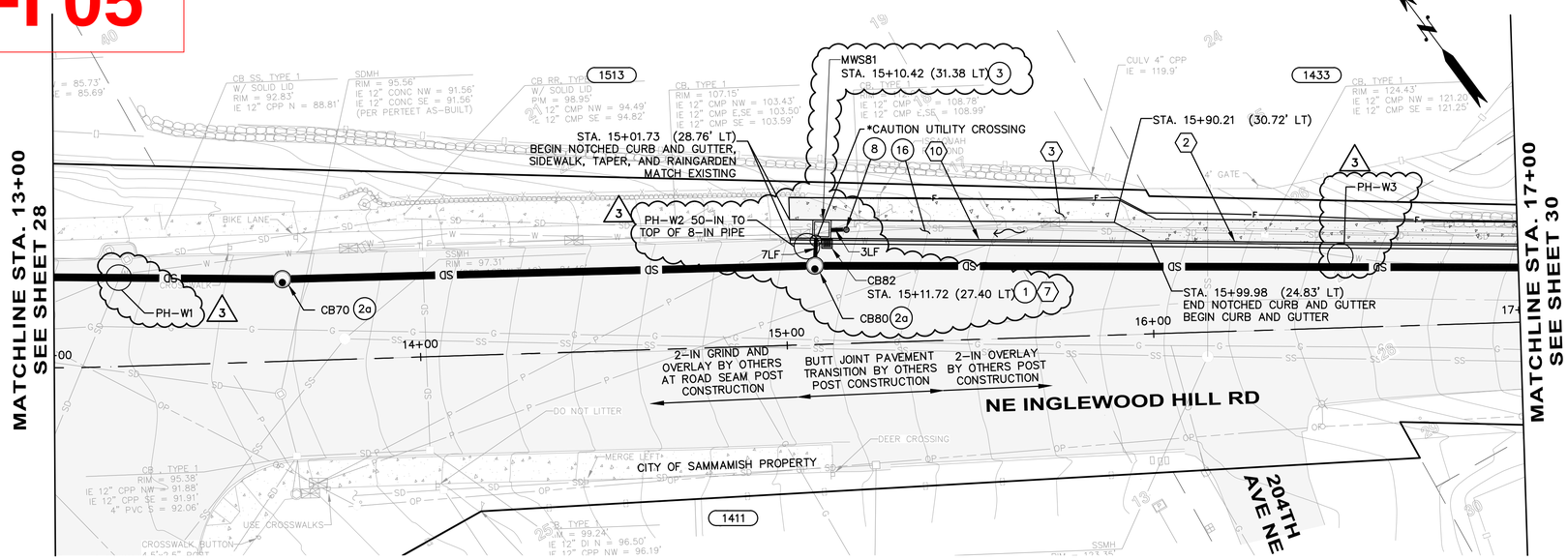
INGLEWOOD HILL STORMWATER AND NON-MOTORIZED IMPROVEMENTS
ROADWAY AND DRAINAGE
STA. 10+00 TO STA. 13+00

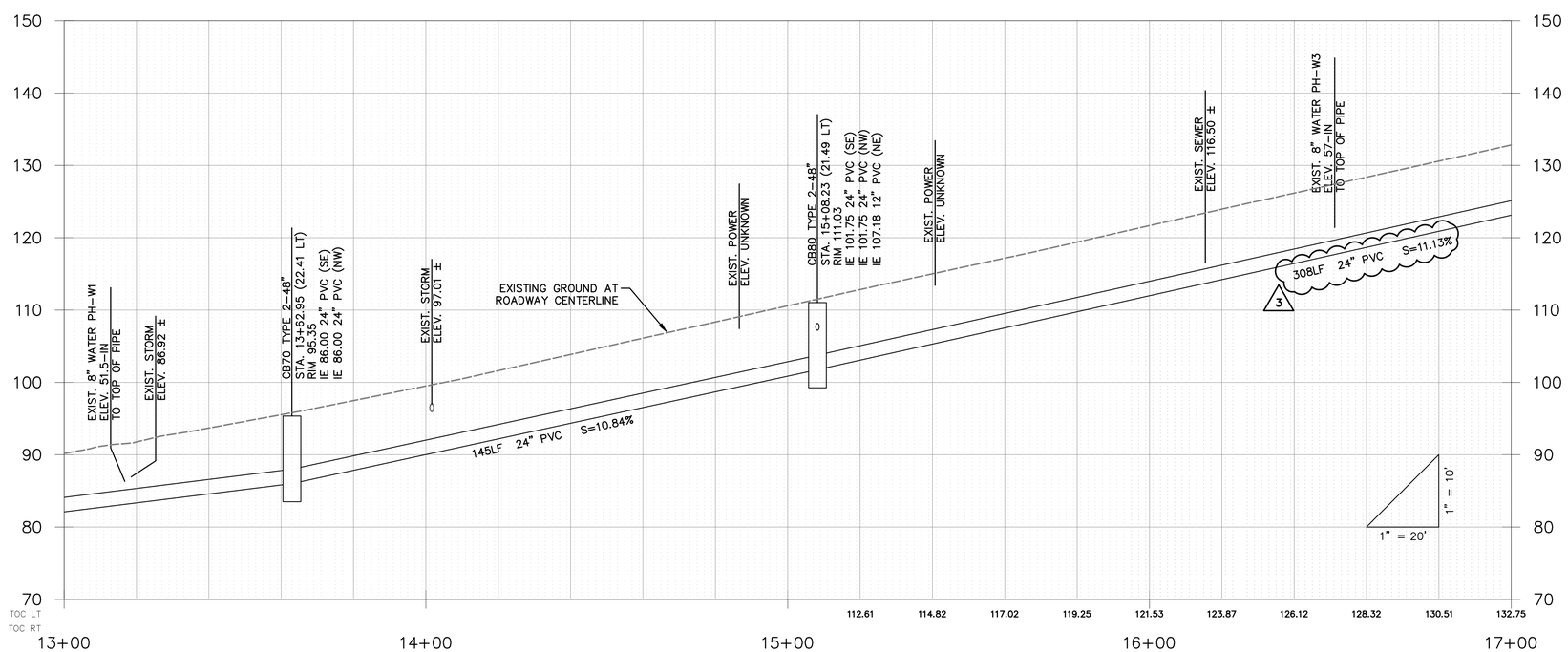
10-140008
OCI PROJECT NO.

PLOTTING DATE: 4/20/2016 USER: Travis FrankirFILE NAME: P:\10-140008 Inglewood Drainage\3 CADD\Sheets\P-10-140008_PP01.dwg

RFI 05

SEC. 29 , T. 25 N., R. 6 E., W.M.





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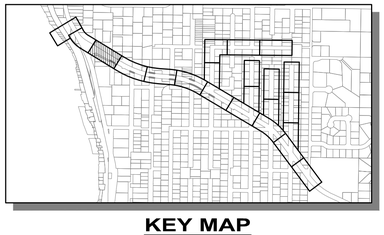

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City of Sammamish Washington

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1800 112th Ave. NE, Suite 220E Ph (425) 451–4009
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29 SHEET OF 89

PLOTTING DATE: 7/7/2016 USER: Travis FrankirFILE NAME: P:\10-140008 Inglewood Drainage\3 CADD\Sheets\P_10-140008_PP01.dwg

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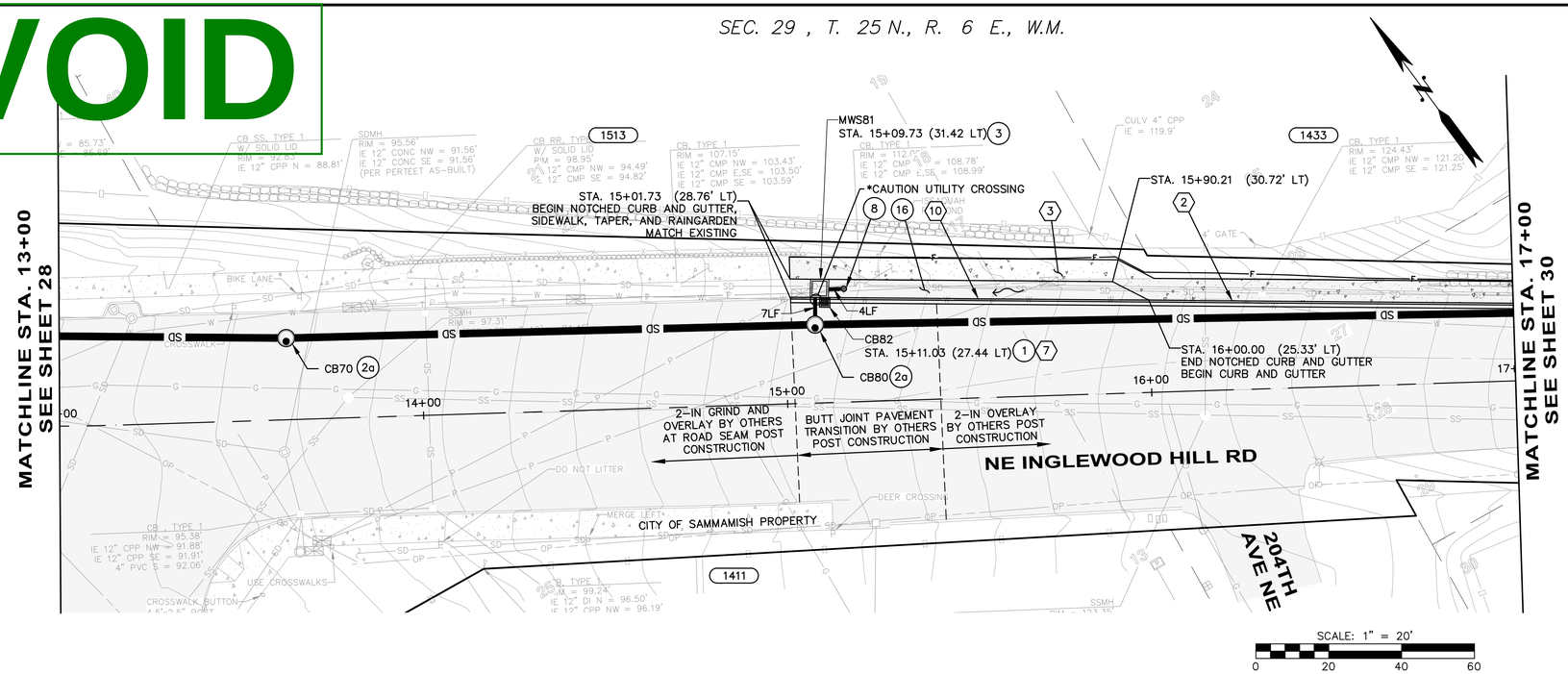

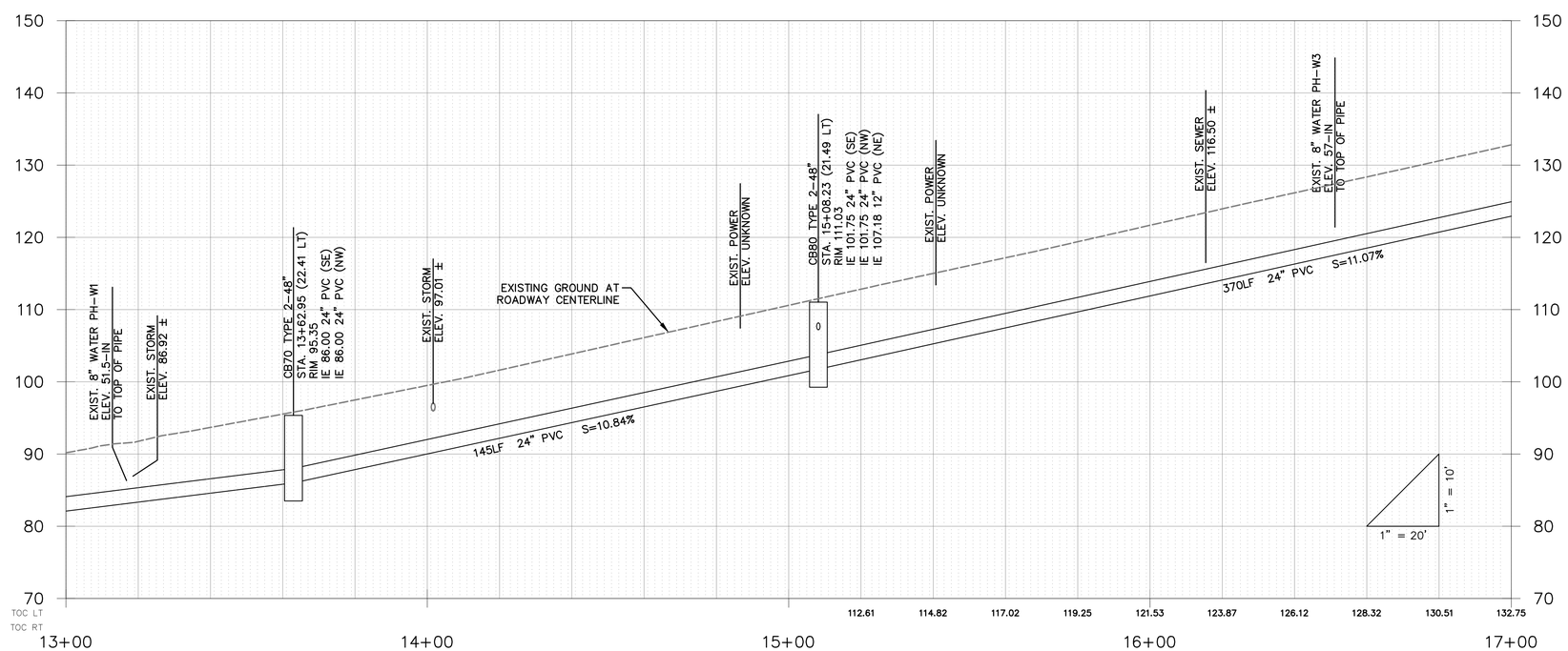

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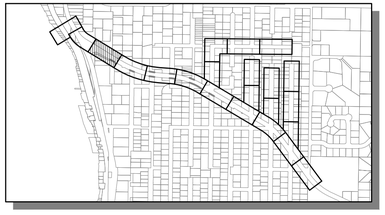
13. SINGLE DIRECTION CURB RAMP PER WSDOT STANDARD PLAN F-40.16-02.
14. 3/8-IN PRE-MOLDED JOINT FILLER PER WSDOT STANDARD PLAN F-30.10-03.

DRAINAGE NOTES:

1. CONCRETE INLET PER WSDOT STANDARD PLAN B-25.60-00.
2. CATCH BASIN TYPE 2 PER WSDOT STANDARD PLAN B-10.20-01
   a. Circular Frame (Ring) and Cover per WSDOT Standard Plan B-30.70-03 with solid locking lid.
   b. Rectangular Vaned Grate per WSDOT Standard Plans B-30.30-01 and B-30.10-01.
3. MODULAR WETLAND SYSTEM PER DETAIL SHEETS 63 – 69, AND 77.
4. EXTEND EXISTING CULVERT PER DETAIL SHEET 77.
5. SAND FILTER VAULT SYSTEM PER DETAILS ON SHEETS 72 – 76.
6. DITCH MAINTENANCE PER SPECIFICATION 2-03.
7. FIELD ADJUST EXISTING FLEXIBLE WATER SERVICE LINE AS NEEDED.
8. 12 IN. DIAM. NYLOPLAST-ADS DRAIN BASIN WITH DOME GRATE PER DETAIL ON SHEET 70 AND 77. FIELD FIT AT LOCALIZED LOW POINT WITHIN 5-FT RADIUS OF THE LOCATION SHOWN ON PLAN.
9. CATCH BASIN TYPE 2 FLOW SPLITTER WITH SOLID LID PER DETAIL 1 SHEET 79.
10. PIPE ANCHOR PER DETAIL SHEET 78.
11. RECTANGULAR VANED GRATE PER WSDOT STANDARD PLAN B-30.30-01.
12. CONNECTION TO DRAINAGE STRUCTURE PER WSDOT STANDARD SPECIFICATION 7-05.3(3).
13. CDS PRE-TREATMENT UNIT PER DETAIL SHEET 71.
14. CLEAN EXISTING CULVERT PER WSDOT STANDARD SPECIFICATION 7-07.
15. CULVERT END PROTECTION, 2-IN TO 4-IN ROCKS PER SPECIFICATION 8-15.
16. RAINGARDEN PER DETAIL SHEET 26.
17. INSTALL EXISTING CB FLOW SPLITTER PER DETAIL 2, SHEET 79.
18. GRASS-LINED V-DITCH PER DETAIL SHEET 78.



KEY MAP
SCALE: 1"=1000'

811
Know what's below.
Call before you dig.

LAURA RUPPERT
STATE OF WASHINGTON
43848
REGISTERED PROFESSIONAL ENGINEER
4/20/16

SCALE BARS INDICATE SCALE OF FULL-SIZE (22 X 34 INCH) DRAWINGS. FOR REDUCED SIZE DRAWINGS ADJUST SCALE ACCORDINGLY.

NO.	DATE	BY	CKD.	REVISION

City of Sammamish Washington

OSBORN CONSULTING INCORPORATED
OSBORN CONSULTING, INC.
1800 112th Ave. NE, Suite 220E Ph (425) 451-4009
Bellevue, WA. 98004 Fax (425) 451-4901

DESIGNED BY: LCR
DRAWN BY: RDH
CHECKED BY: LAT
DATE: FEB. 2016

INGLEWOOD HILL STORMWATER AND NON-MOTORIZED IMPROVEMENTS
ROADWAY AND DRAINAGE
STA. 13+00 TO STA. 17+00

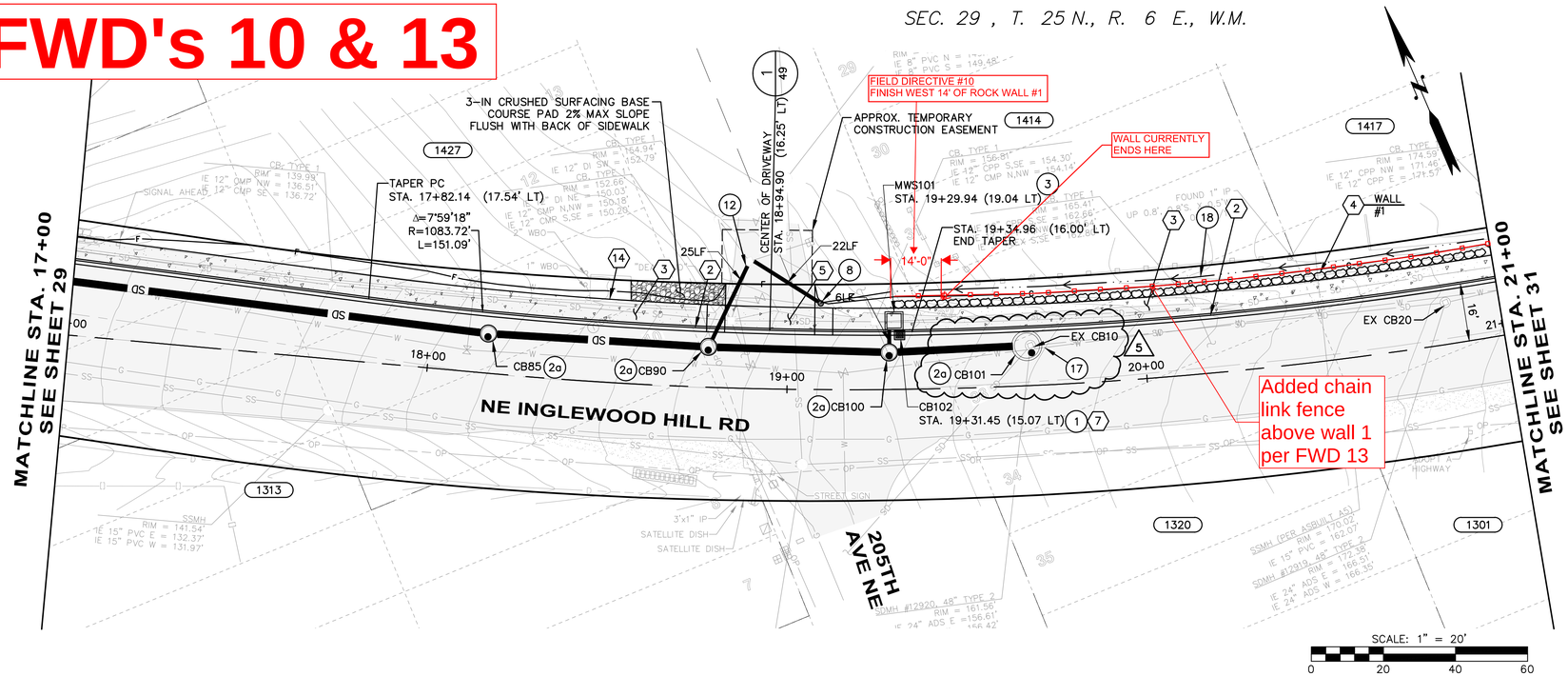
10-140008
OCI PROJECT NO.

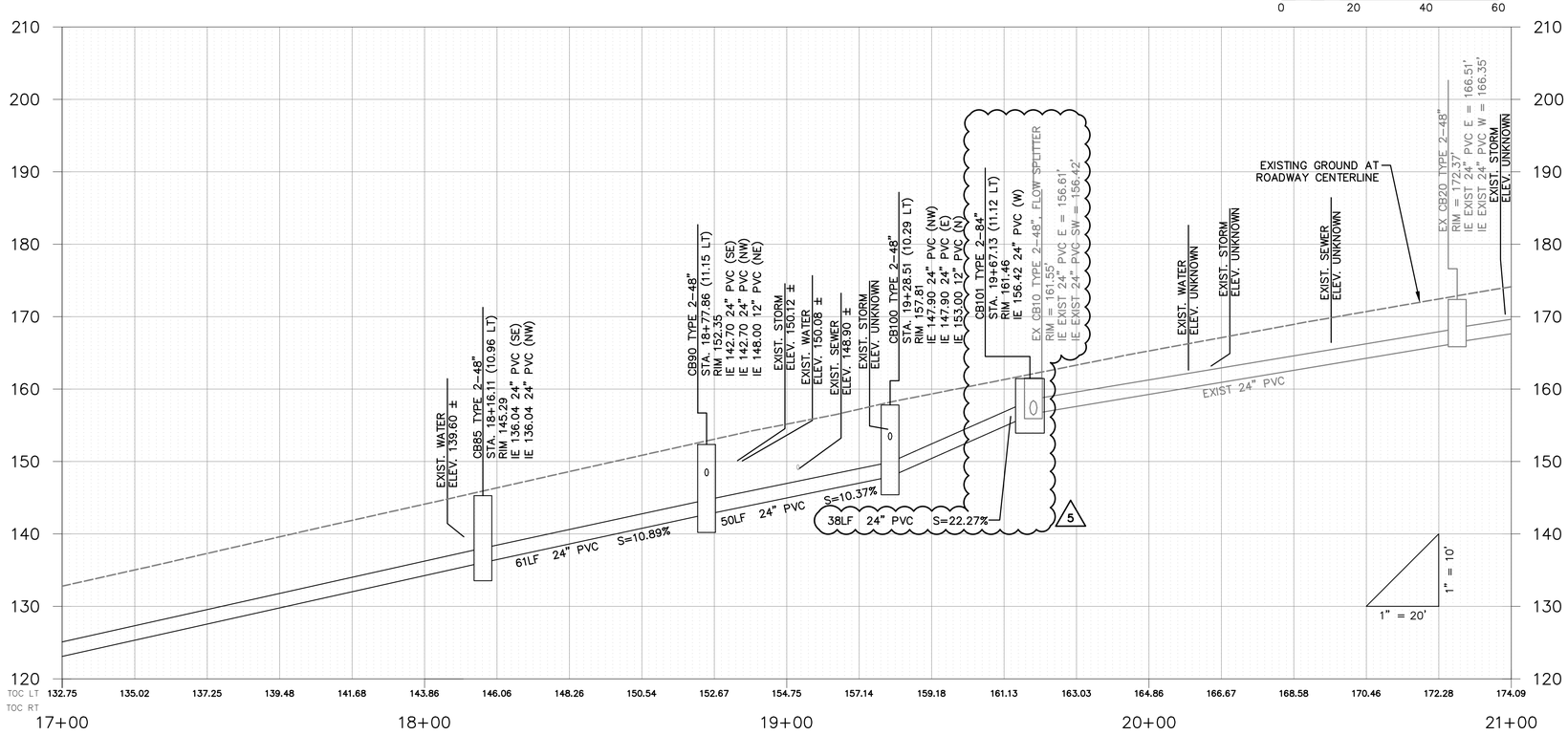
29 SHEET OF 89

PLOTTING DATE: 4/20/2016 USER: Travis Franklin FILE NAME: P:\10-140008 Inglewood Drainage\3 CADD\Sheets\P-10-140008_PP01.dwg

REVISED SHEET - FIELD DIRECTIVE #5

FWD's 10 & 13





GENERAL NOTES:

1. SEE SHEET 25 FOR TYPICAL ROADWAY SECTIONS. SEE SHEET 78 FOR TRENCH RESTORATION DETAILS.
2. SEE SHEET 26 FOR CURB AND RAINGARDEN DETAILS.
3. SEE SHEETS 49 – 53 FOR CURB RETURNS AND DRIVEWAY DETAILS.
4. ALL STATIONS AND OFFSETS FOR CURBING ARE TO FACE OF CURB, AND STRUCTURES ARE TO CENTER OF STRUCTURE, UNLESS OTHERWISE NOTED.

ROADWAY NOTES:

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4. RETAINING WALL, SEE SHEETS 54 – 62 FOR WALL PLAN AND PROFILES.
5. CEMENT CONCRETE DRIVEWAY ENTRANCE TYPE 1 PER WSDOT STANDARD PLAN F-80.10-03.
6. TYPE PARALLEL A CURB RAMP PER WSDOT STANDARD PLAN F-40.12-02.
7. CEMENT CONCRETE CURB AND GUTTER PAN PER WSDOT STANDARD PLAN F-10.16-00.
8. COMBINATION CURB RAMP PER WSDOT STANDARD PLAN F-40.14-02.
9. HMA TRANSITION RAMP PER DETAIL ON SHEET 26.
10. CEMENT CONCRETE NOTCHED CURB AND GUTTER PER DETAIL ON SHEET 26.
    a. curb inlet opening location per detail sheet 77.
11. TYPE PARALLEL B CURB RAMP PER WSDOT STANDARD PLAN F-40.12-02.
12. CEMENT CONCRETE TRAFFIC CURB PER WSDOT STANDARD PLAN F-10.12-03. SEE SECTION G, SHEET 25.
13. SINGLE DIRECTION CURB RAMP PER WSDOT STANDARD PLAN F-40.16-02.
14. 3/8-IN PRE-MOLDED JOINT FILLER PER WSDOT STANDARD PLAN F-30.10-03.
15. CHAIN LINK FENCE TYPE 3 PER WSDOT STANDARD PLAN L-20.10-03.
16. PEDESTRIAN RAILING PER DETAIL SHEET 26.

DRAINAGE NOTES:

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9. CATCH BASIN TYPE 2 FLOW SPLITTER WITH SOLID LID PER DETAIL 1 SHEET 79.
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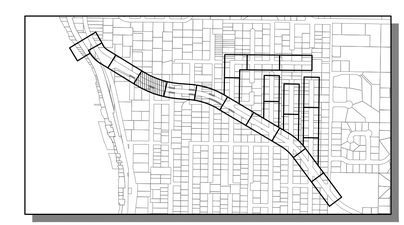
11. RECTANGULAR VANED GRATE PER WSDOT STANDARD PLAN B-30.30-01.
12. CONNECTION TO DRAINAGE STRUCTURE PER WSDOT STANDARD SPECIFICATION 7-05.3(3).
13. CDS PRE-TREATMENT UNIT PER DETAIL SHEET 71.
14. CLEAN EXISTING CULVERT PER WSDOT STANDARD SPECIFICATION 7-07.
15. CULVERT END PROTECTION, 2-IN TO 4-IN ROCKS PER SPECIFICATION 8-15.
16. RAINGARDEN PER DETAIL SHEET 26.
17. INSTALL EXISTING CB FLOW SPLITTER PER DETAIL 2, SHEET 79.
18. GRASS-LINED V-DITCH PER DETAIL SHEET 78.
19. MANHOLE TYPE 1 PER WSDOT STANDARD PLAN B-15.20-01 WITH CIRCULAR FRAME (RING) AND



KEY MAP
SCALE: 1"=1000'

811 Know what's below. Call before you dig.

LAURA RUPPERT STATE OF WASHINGTON 43848 REGISTERED PROFESSIONAL ENGINEER

SCALE BARS INDICATE SCALE OF FULL-SIZE (22 X 34 INCH) DRAWINGS. FOR REDUCED SIZE DRAWINGS ADJUST SCALE ACCORDINGLY.

NO.	DATE	BY	CKD.	REVISION
5	8/18/16	TNF	LR	STORM DRAIN ADJUSTMENTS
3	7/7/16	TNF	LR	RFI-005 UTILITY ADJUSTMENTS
1	7/1/16	TNF	LR	RFI-002 VERTICAL DATUM

City of Sammamish Washington

OSBORN CONSULTING INCORPORATED
OSBORN CONSULTING, INC.
1800 112th Ave. NE, Suite 220E Ph (425) 451-4009
Bellevue, WA. 98004 Fax (425) 451-4901

DESIGNED BY: LCR
DRAWN BY: RDH
CHECKED BY: LAT
DATE: FEB. 2016

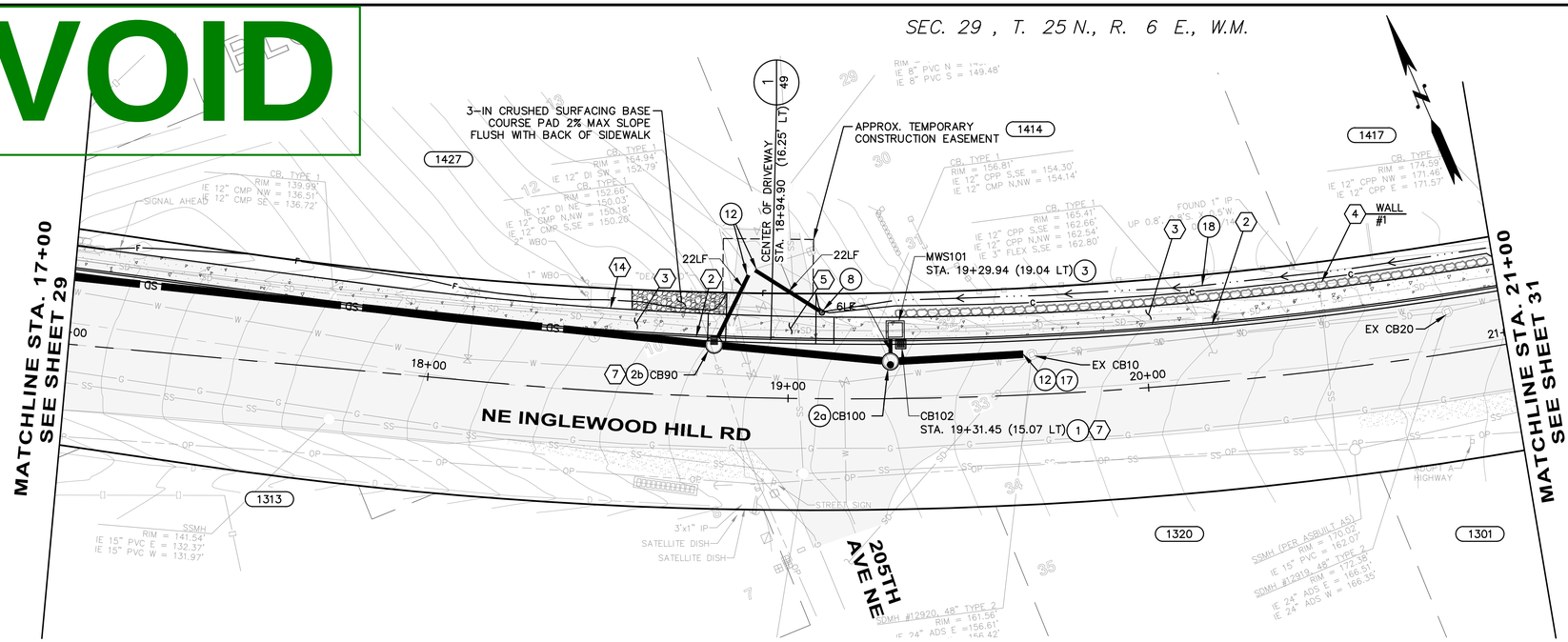
INGLEWOOD HILL STORMWATER AND NON-MOTORIZED IMPROVEMENTS ROADWAY AND DRAINAGE STA. 17+00 TO STA. 21+00

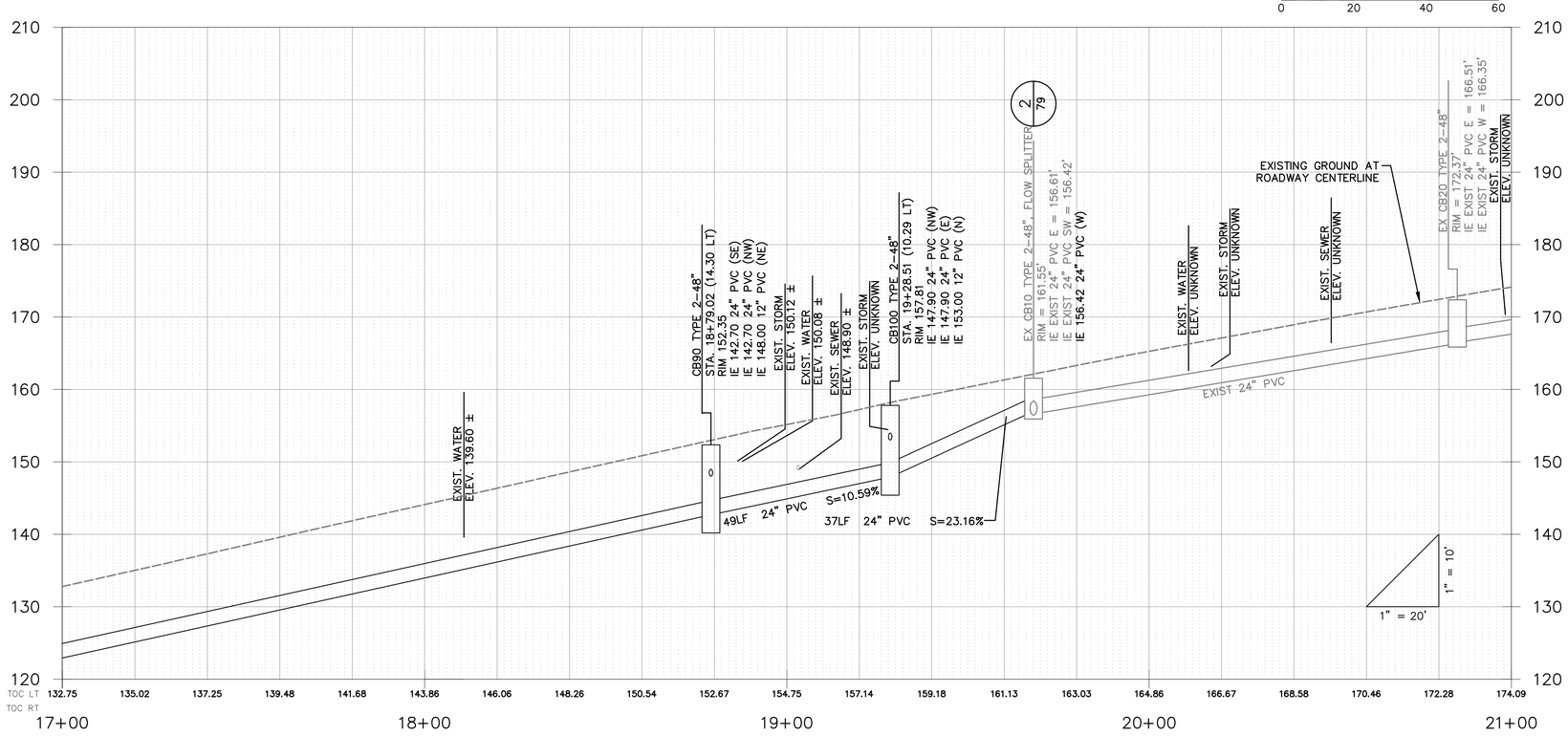
10-140008
OCI PROJECT NO.

30 SHEET OF 89

PLOTTING DATE: 8/19/2016 USER: Travis FranklinFILE NAME: P:\10-140008 Inglewood Drainage\3 CADD\Sheets\P_10-140008_PP01.dwg

VOID





GENERAL NOTES:

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    a. curb inlet opening location per detail sheet 77.
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12. CEMENT CONCRETE TRAFFIC CURB PER WSDOT STANDARD PLAN F-10.12-03. SEE SECTION G, SHEET 25.
13. SINGLE DIRECTION CURB RAMP PER WSDOT STANDARD PLAN F-40.16-02.
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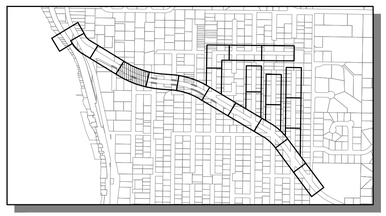


KEY MAP
SCALE: 1"=1000'

811 Know what's below. Call before you dig.

LAURA RUPPERT STATE OF WASHINGTON 43846 REGISTERED PROFESSIONAL ENGINEER
4/20/16

SCALE BARS INDICATE SCALE OF FULL-SIZE (22 X 34 INCH) DRAWINGS. FOR REDUCED SIZE DRAWINGS ADJUST SCALE ACCORDINGLY.

NO.	DATE	BY	CKD.	REVISION

City of Sammamish Washington

OSBORN CONSULTING INCORPORATED
OSBORN CONSULTING, INC.
1800 112th Ave. NE, Suite 220E Ph (425) 451-4009
Bellevue, WA. 98004 Fax (425) 451-4901

DESIGNED BY: LCR
DRAWN BY: RDH
CHECKED BY: LAT
DATE: FEB. 2016

INGLEWOOD HILL STORMWATER AND NON-MOTORIZED IMPROVEMENTS
ROADWAY AND DRAINAGE
STA. 17+00 TO STA. 21+00

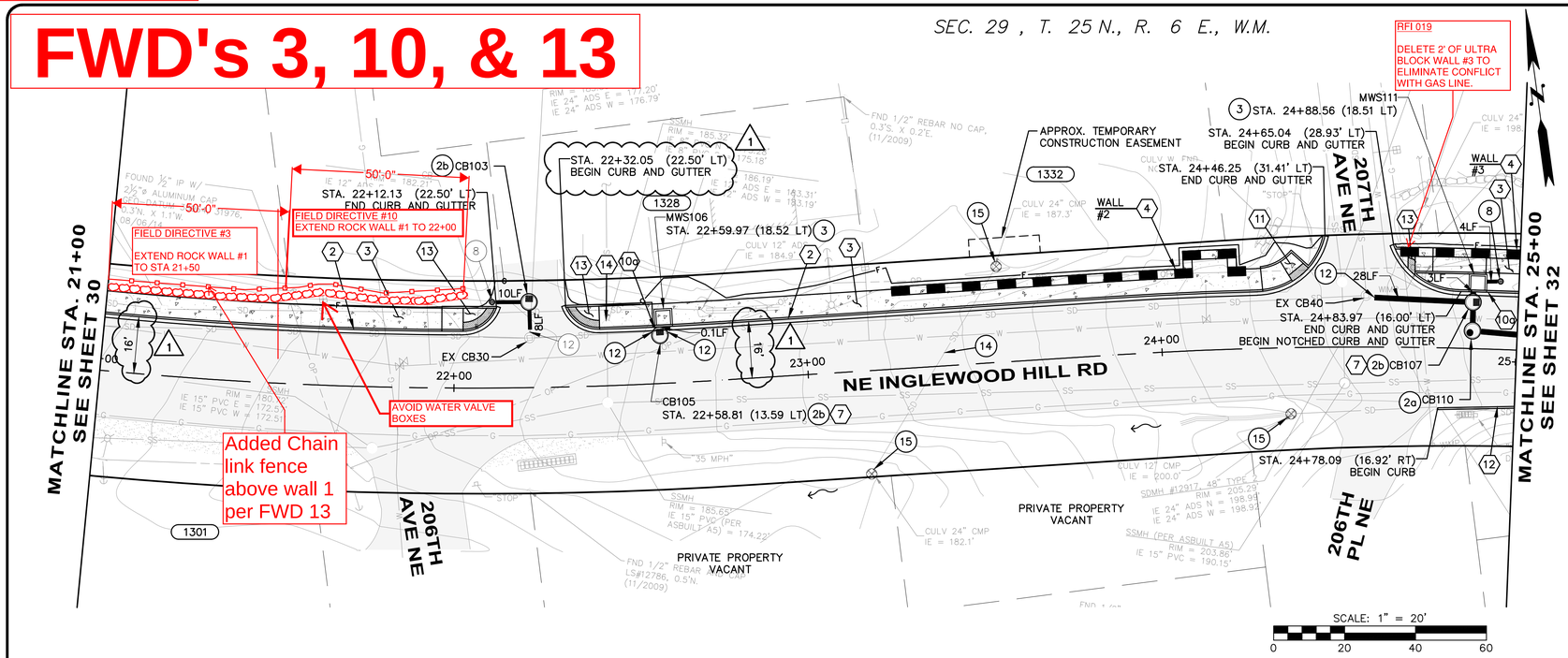
10-140008
OCI PROJECT NO.

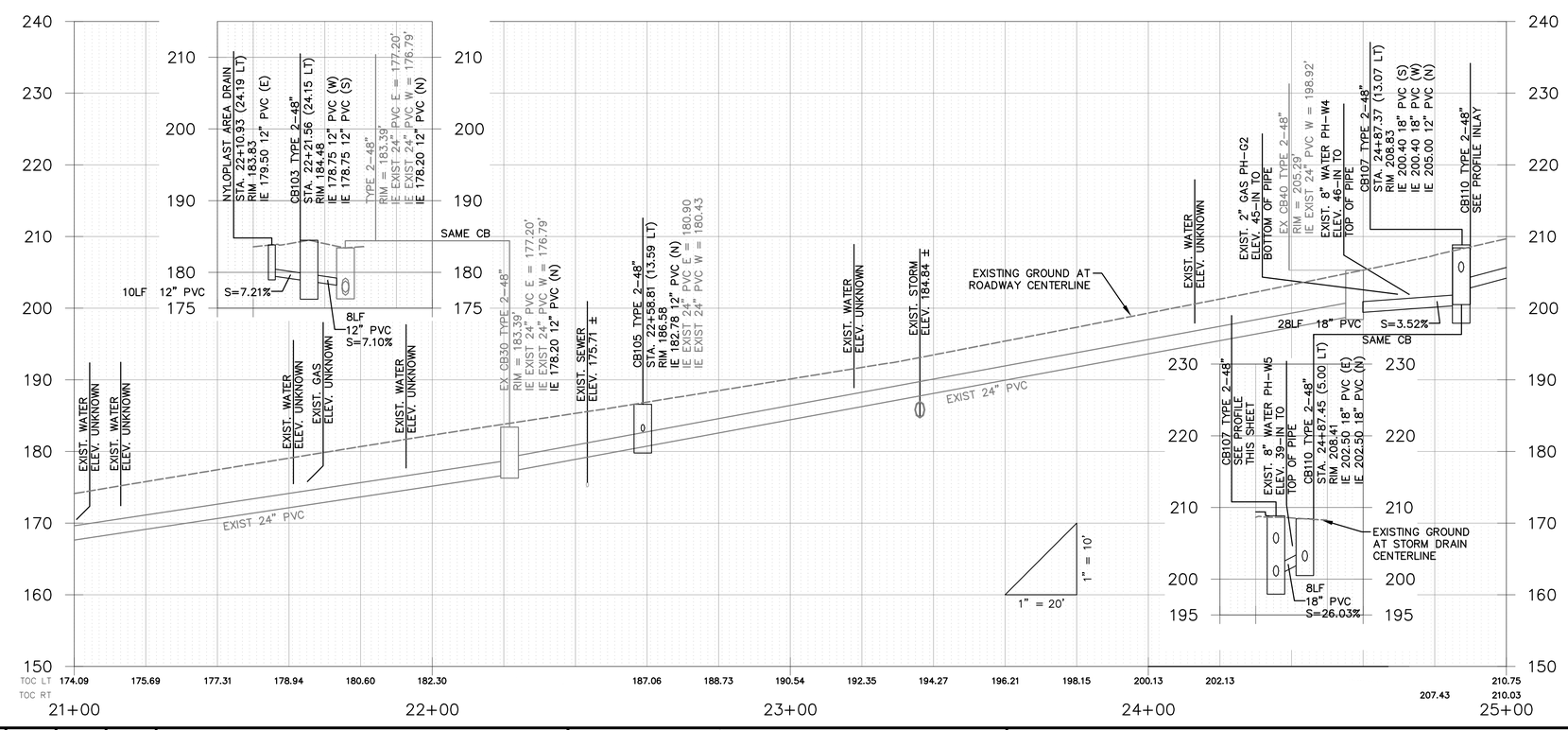
30 SHEET OF 89

PLOTTING DATE: 4/20/2016 USER: Travis FranklinFILE NAME: P:\10-140008 Inglewood Drainage\3 CADD\Sheets\P_10-140008_PP01.dwg

REVISED SHEET - RFI #002

FWD's 3, 10, & 13





GENERAL NOTES:

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8. COMBINATION CURB RAMP PER WSDOT STANDARD PLAN F–40.14–02.
9. HMA TRANSITION RAMP PER DETAIL ON SHEET 26.
10. CEMENT CONCRETE NOTCHED CURB AND GUTTER PER DETAIL ON SHEET 26.
    a. curb inlet opening location per detail sheet 77.
11. TYPE PARALLEL B CURB RAMP PER WSDOT STANDARD PLAN F–40.12–02.
12. CEMENT CONCRETE TRAFFIC CURB PER WSDOT STANDARD PLAN F–10.12–03. SEE SECTION G, SHEET 25.
13. SINGLE DIRECTION CURB RAMP PER WSDOT STANDARD PLAN F–40.16–02.
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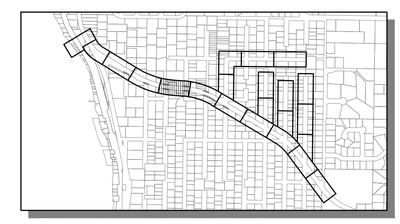

KEY MAP
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LAURA RUFFNER STATE OF WASHINGTON 43848 REGISTERED PROFESSIONAL ENGINEER

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NO.	DATE	BY	CKD.	REVISION
1	7/1/16	TNF	LR	RFI–002 VERTICAL DATUM

City of Sammamish Washington

OSBORN CONSULTING INCORPORATED
OSBORN CONSULTING, INC.
1800 112th Ave. NE, Suite 220E Ph (425) 451–4009
Bellevue, WA. 98004 Fax (425) 451–4901

DESIGNED BY: LCR
DRAWN BY: RDH
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DATE: FEB. 2016

INGLEWOOD HILL STORMWATER AND NON-MOTORIZED IMPROVEMENTS
ROADWAY AND DRAINAGE
STA. 21+00 TO STA. 25+00

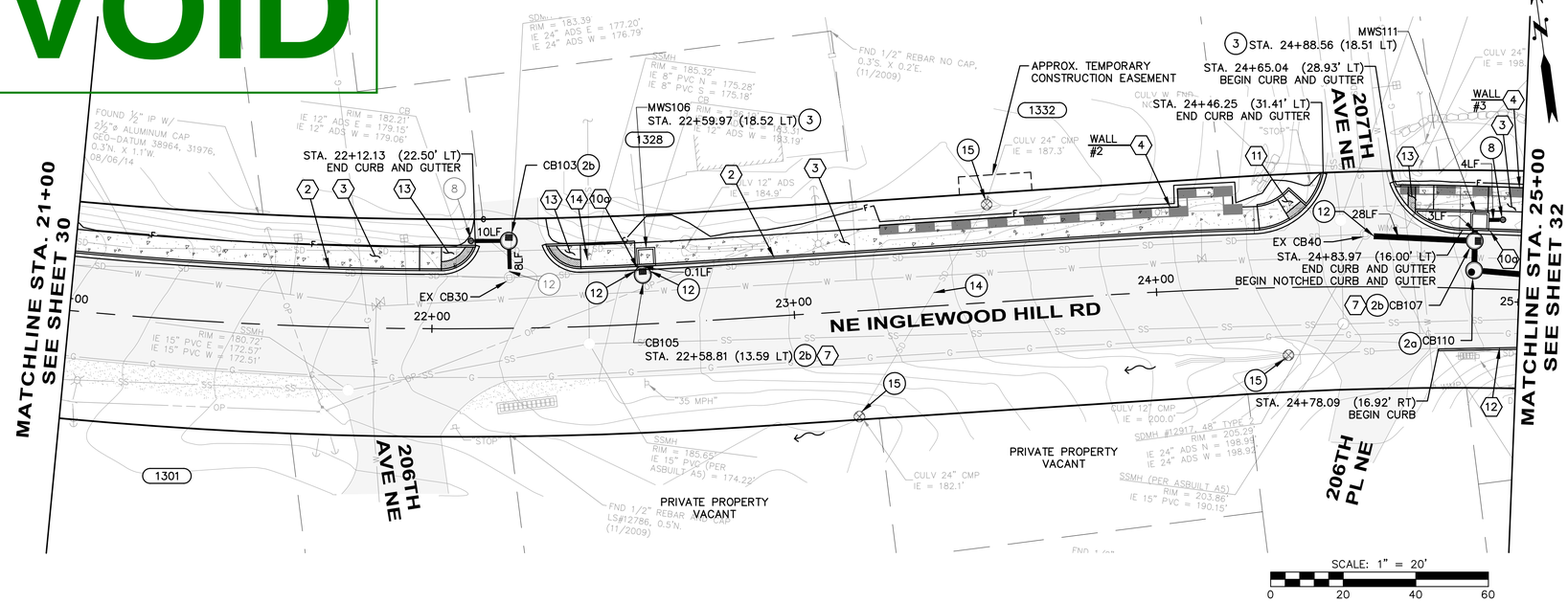
10-140008
OCI PROJECT NO.

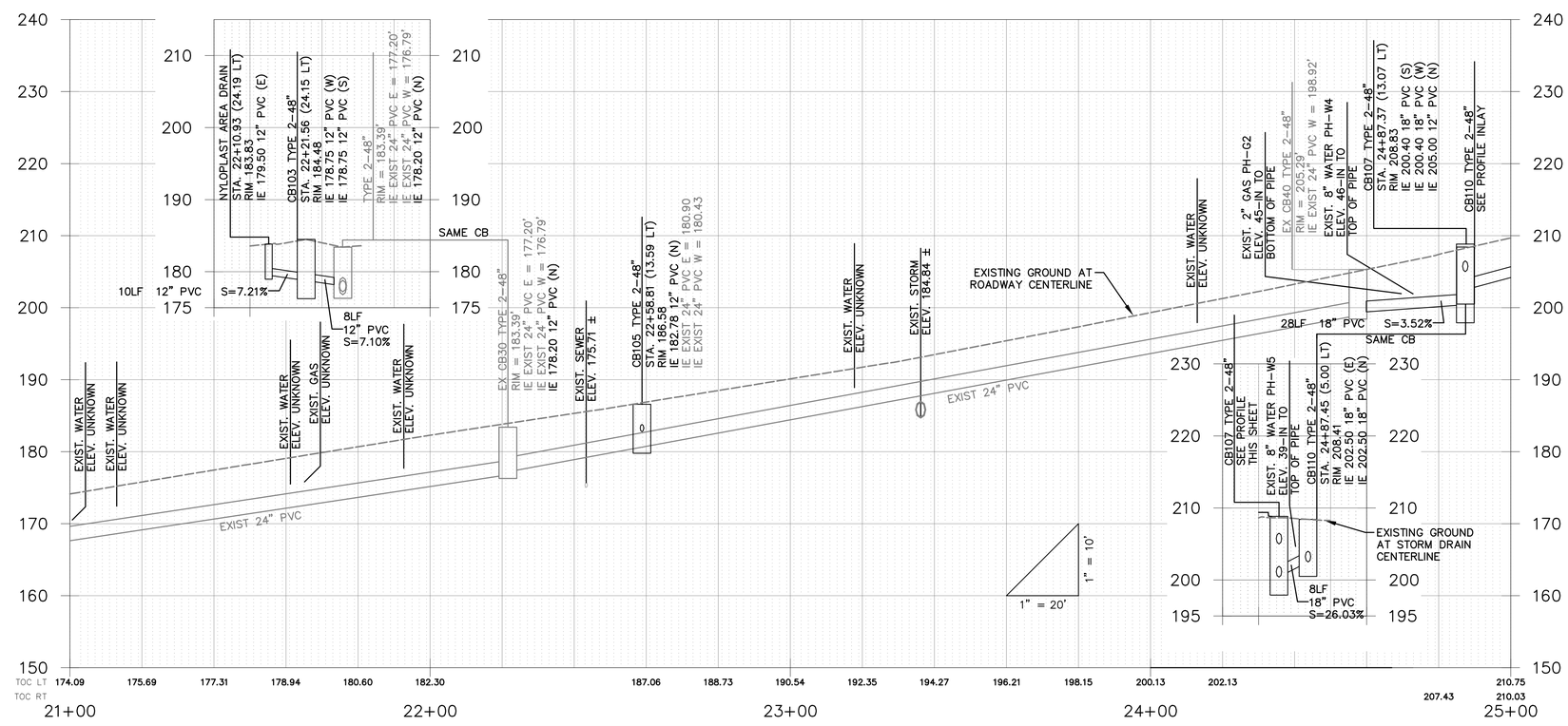
31 SHEET OF 89

PLOTTING DATE: 7/1/2016 USER: Travis Frankl FILE NAME: P:\10-140008 Inglewood Drainage\3 CADD\Sheets\P_10-140008_PP01.dwg

VOID

SEC. 29 , T. 25 N., R. 6 E., W.M.





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5. SAND FILTER VAULT SYSTEM PER DETAILS ON SHEETS 72 – 76.
6. DITCH MAINTENANCE PER SPECIFICATION 2–03.
7. FIELD ADJUST EXISTING FLEXIBLE WATER SERVICE LINE AS NEEDED.
8. 12 IN. DIAM. NYLOPLAST–ADS DRAIN BASIN WITH DOME GRATE PER DETAIL ON SHEET 70 AND 77. FIELD FIT AT LOCALIZED LOW POINT WITHIN 5–FT RADIUS OF THE LOCATION SHOWN ON PLAN.
9. CATCH BASIN TYPE 2 FLOW SPLITTER WITH SOLID LID PER DETAIL 1 SHEET 79.
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16. RAINGARDEN PER DETAIL SHEET 26.
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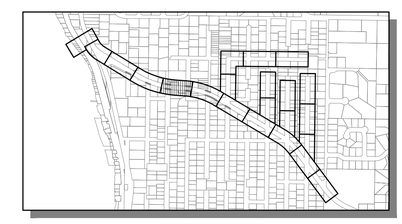


KEY MAP
SCALE: 1"=1000'

811 Know what's below. Call before you dig.

LAURA RUTHERFORD STATE OF WASHINGTON 43848 REGISTERED PROFESSIONAL ENGINEER
4/20/16

SCALE BARS INDICATE SCALE OF FULL-SIZE (22 X 34 INCH) DRAWINGS. FOR REDUCED SIZE DRAWINGS ADJUST SCALE ACCORDINGLY.

NO.	DATE	BY	CKD.	REVISION

City of Sammamish Washington

OSBORN CONSULTING INCORPORATED
OSBORN CONSULTING, INC.
1800 112th Ave. NE, Suite 220E Ph (425) 451–4009
Bellevue, WA. 98004 Fax (425) 451–4901

DESIGNED BY: LCR
DRAWN BY: RDH
CHECKED BY: LAT
DATE: FEB. 2016

INGLEWOOD HILL STORMWATER AND NON-MOTORIZED IMPROVEMENTS
ROADWAY AND DRAINAGE
STA. 21+00 TO STA. 25+00

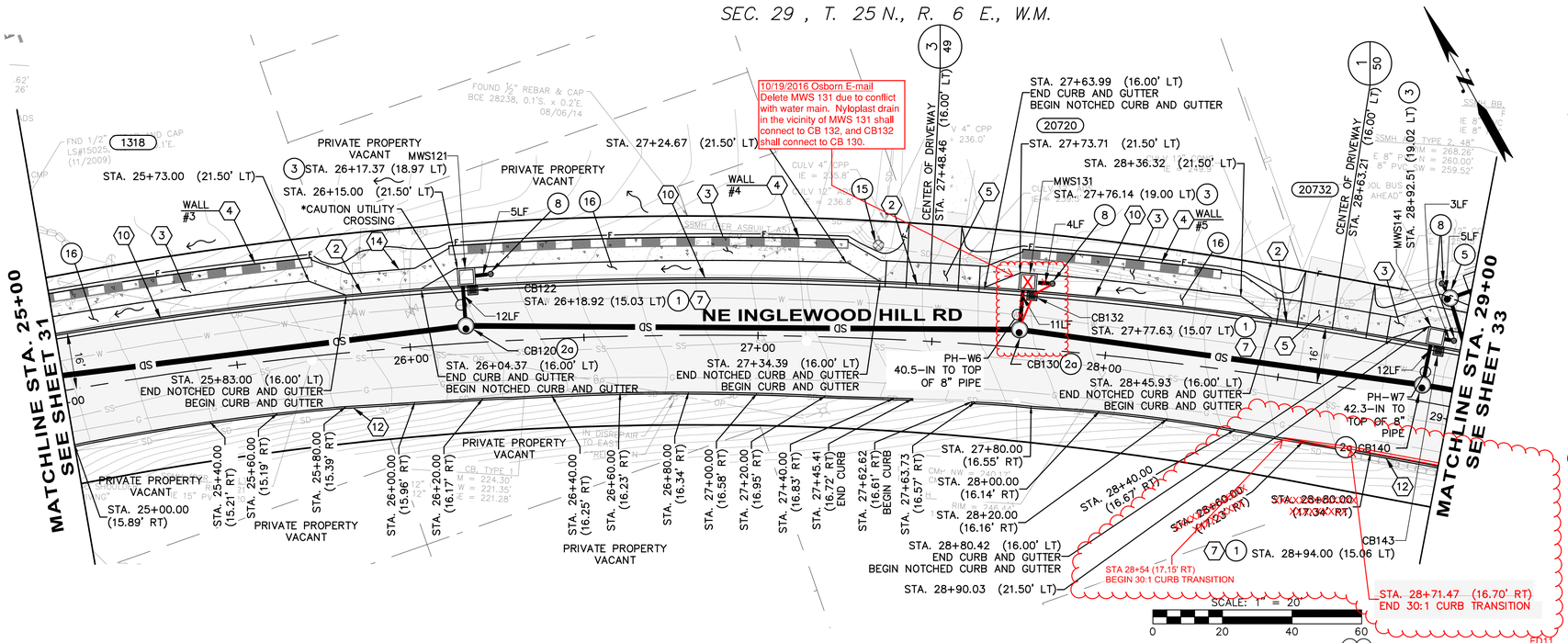
10-140008
OCI PROJECT NO.

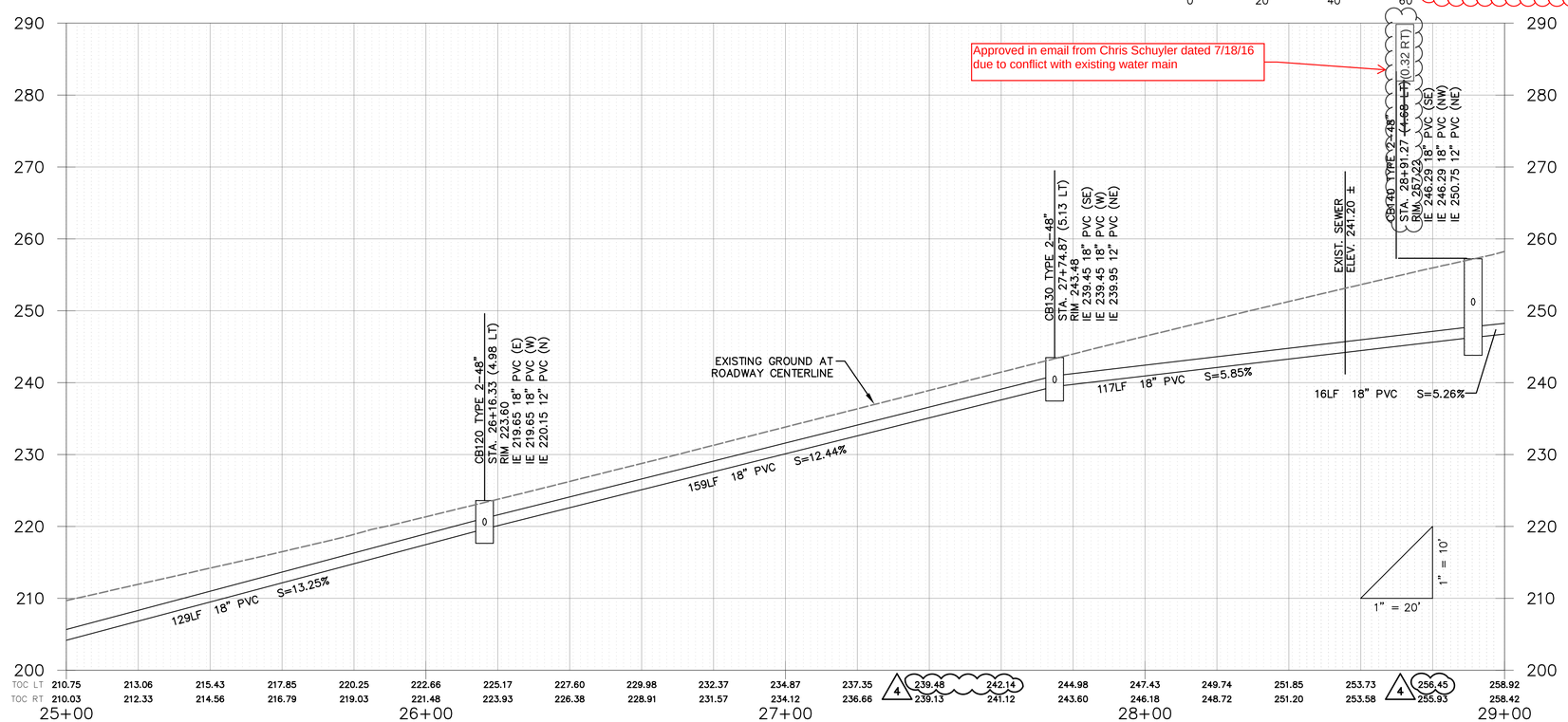
31 SHEET OF 89

PLOTTING DATE: 4/20/2016 USER: Travis FrankelFILE NAME: P:\10-140008 Inglewood Drainage\3 CADD\Sheets\P_10-140008_PP01.dwg

REVISED SHEET - RFI #004 + FD11

SEC. 29 , T. 25 N., R. 6 E., W.M.





GENERAL NOTES:

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    a. curb inlet opening location per detail sheet 77.
11. TYPE PARALLEL B CURB RAMP PER WSDOT STANDARD PLAN F-40.12-02.
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14. 3/8-IN PRE-MOLDED JOINT FILLER PER WSDOT STANDARD PLAN F-30.10-03.

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2. CATCH BASIN TYPE 2 PER WSDOT STANDARD PLAN B-10.20-01
   a. Circular Frame (Ring) and Cover per WSDOT Standard Plan B-30.70-03 with solid locking lid.
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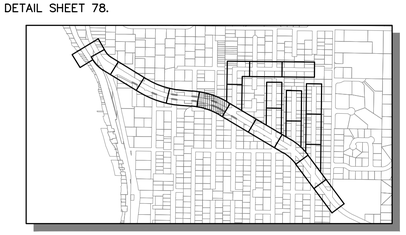

KEY MAP
SCALE: 1"=1000'

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LAURA RUPPERT STATE OF WASHINGTON 43848 REGISTERED PROFESSIONAL ENGINEER

SCALE BARS INDICATE SCALE OF FULL-SIZE (22 X 34 INCH) DRAWINGS. FOR REDUCED SIZE DRAWINGS ADJUST SCALE ACCORDINGLY.

NO.	DATE	BY	CKD.	REVISION
4	7/8/16	TNF	LR	RFI-004 STATION OFFSET/ELEVATIONS REVISIONS
3	7/7/16	TNF	LR	RFI-005 UTILITY ADJUSTMENTS
1	7/1/16	TNF	LR	RFI-002 VERTICAL DATUM

City of Sammamish Washington

OSBORN CONSULTING INCORPORATED
OSBORN CONSULTING, INC.
1800 112th Ave. NE, Suite 220E Ph (425) 451-4009
Bellevue, WA. 98004 Fax (425) 451-4901

DESIGNED BY: LCR
DRAWN BY: RDH
CHECKED BY: LAT
DATE: FEB. 2016

INGLEWOOD HILL STORMWATER AND NON-MOTORIZED IMPROVEMENTS ROADWAY AND DRAINAGE STA. 25+00 TO STA. 29+00

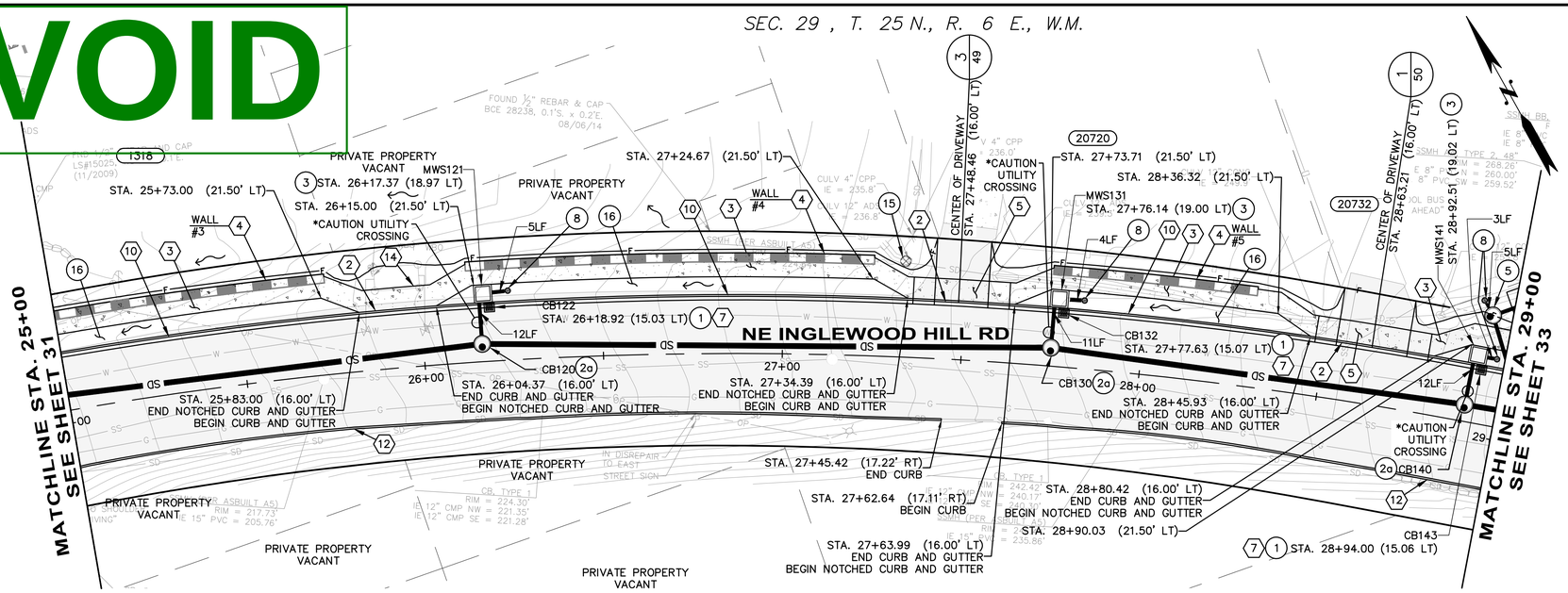
10-140008 OCI PROJECT NO.

32 SHEET OF 89

PLOTTING DATE: 7/8/2016 USER: Travis Frankl FILE NAME: P:\10-140008 Inglewood Drainage\3 CADD\Sheets\P_10-140008_PP02.dwg

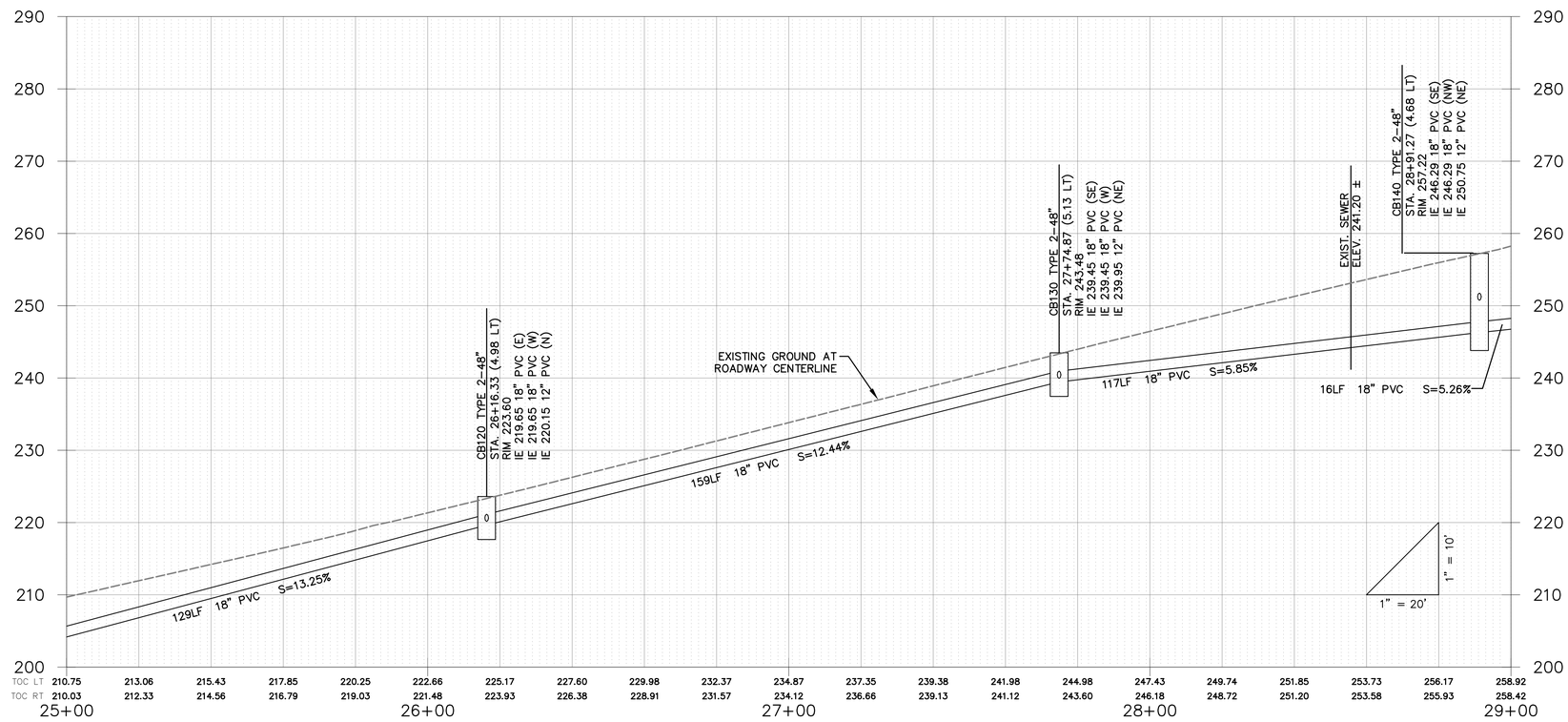
VOID

SEC. 29 , T. 25 N., R. 6 E., W.M.



SCALE: 1" = 20'

0 20 40 60



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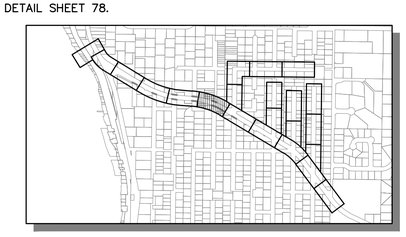

KEY MAP
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LAURA RUPPERT STATE OF WASHINGTON 43848 REGISTERED PROFESSIONAL ENGINEER
4/20/16

SCALE BARS INDICATE SCALE OF FULL-SIZE (22 X 34 INCH) DRAWINGS. FOR REDUCED SIZE DRAWINGS ADJUST SCALE ACCORDINGLY.

NO.	DATE	BY	CKD.	REVISION

City of Sammamish Washington

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Bellevue, WA. 98004 Fax (425) 451–4901

DESIGNED BY: LCR
DRAWN BY: RDH
CHECKED BY: LAT
DATE: FEB. 2016

INGLEWOOD HILL STORMWATER AND NON-MOTORIZED IMPROVEMENTS
ROADWAY AND DRAINAGE
STA. 25+00 TO STA. 29+00

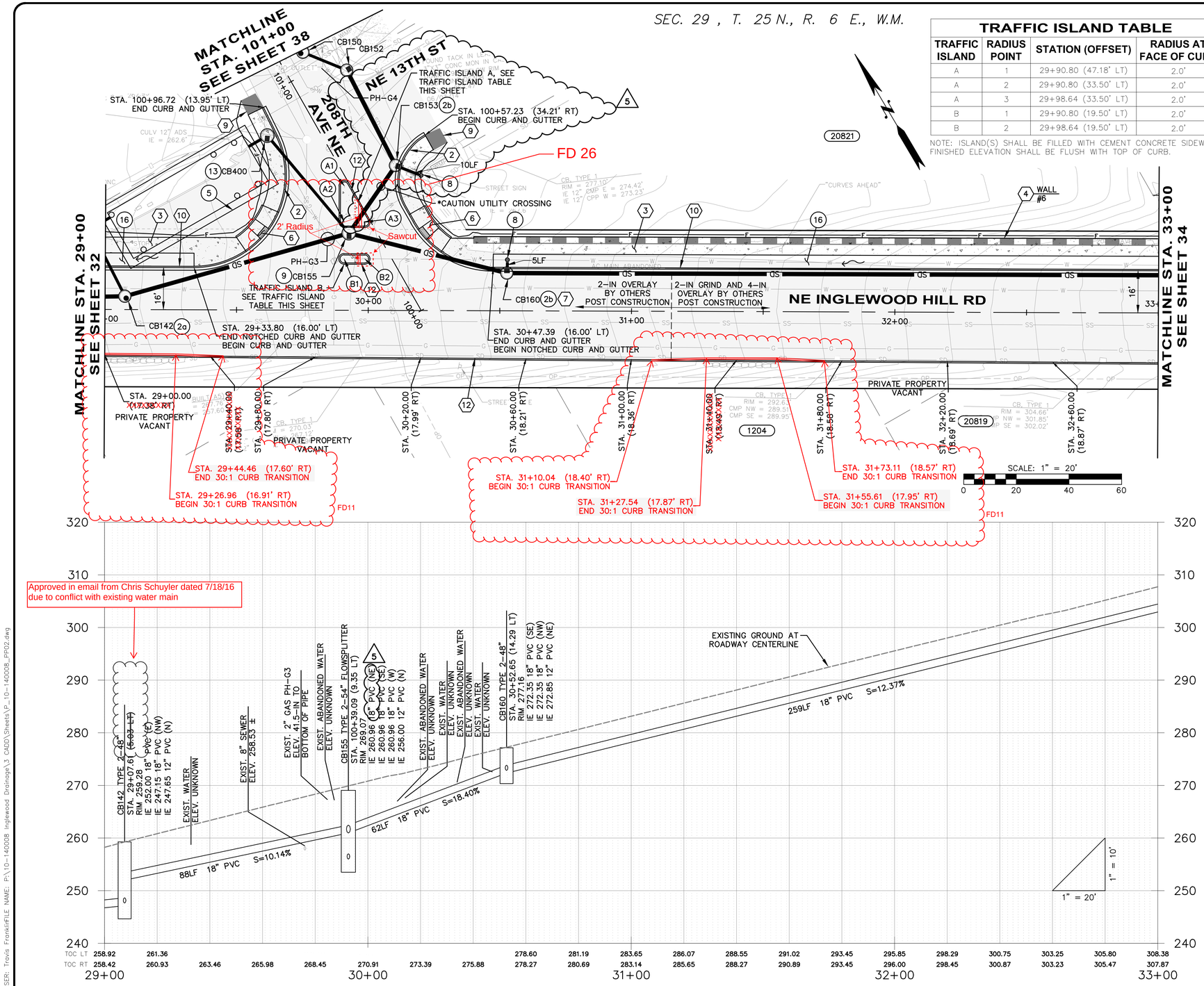
10-140008
OCI PROJECT NO.

32 SHEET OF 89

PLOTTING DATE: 4/20/2016 USER: Travis Franklin FILE NAME: P:\10-140008 Inglewood Drainage\3 CADD\Sheets\P_10-140008_PP02.dwg

REVISED SHEET - FIELD DIRECTIVE #5, 11, and 26

SEC. 29 , T. 25 N., R. 6 E., W.M.



TRAFFIC ISLAND TABLE

TRAFFIC ISLAND	RADIUS POINT	STATION (OFFSET)	RADIUS AT FACE OF CURB
A	1	29+90.80 (47.18' LT)	2.0'
A	2	29+90.80 (33.50' LT)	2.0'
A	3	29+98.64 (33.50' LT)	2.0'
B	1	29+90.80 (19.50' LT)	2.0'
B	2	29+98.64 (19.50' LT)	2.0'

NOTE: ISLAND(S) SHALL BE FILLED WITH CEMENT CONCRETE SIDEWALK. FINISHED ELEVATION SHALL BE FLUSH WITH TOP OF CURB.

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15. CHAIN LINK FENCE TYPE 3 PER WSDOT STANDARD PLAN L-20.10-03.
16. PEDESTRIAN RAILING PER DETAIL X SHEET 26

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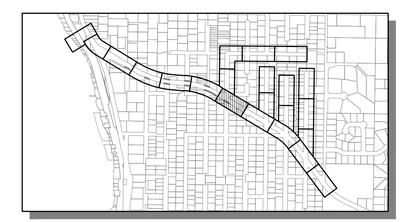

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NO.	DATE	BY	CKD.	REVISION
5	8/18/16	TNF	LR	STORM DRAIN ADJUSTMENTS
3	7/7/16	TNF	LR	RFI-005 UTILITY ADJUSTMENTS
1	7/1/16	TNF	LR	RFI-002 VERTICAL DATUM

City of Sammamish Washington

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1800 112th Ave. NE, Suite 220E Ph (425) 451-4009
Bellevue, WA. 98004 Fax (425) 451-4901

DESIGNED BY: LCR
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ROADWAY AND DRAINAGE
STA. 29+00 TO STA. 33+00

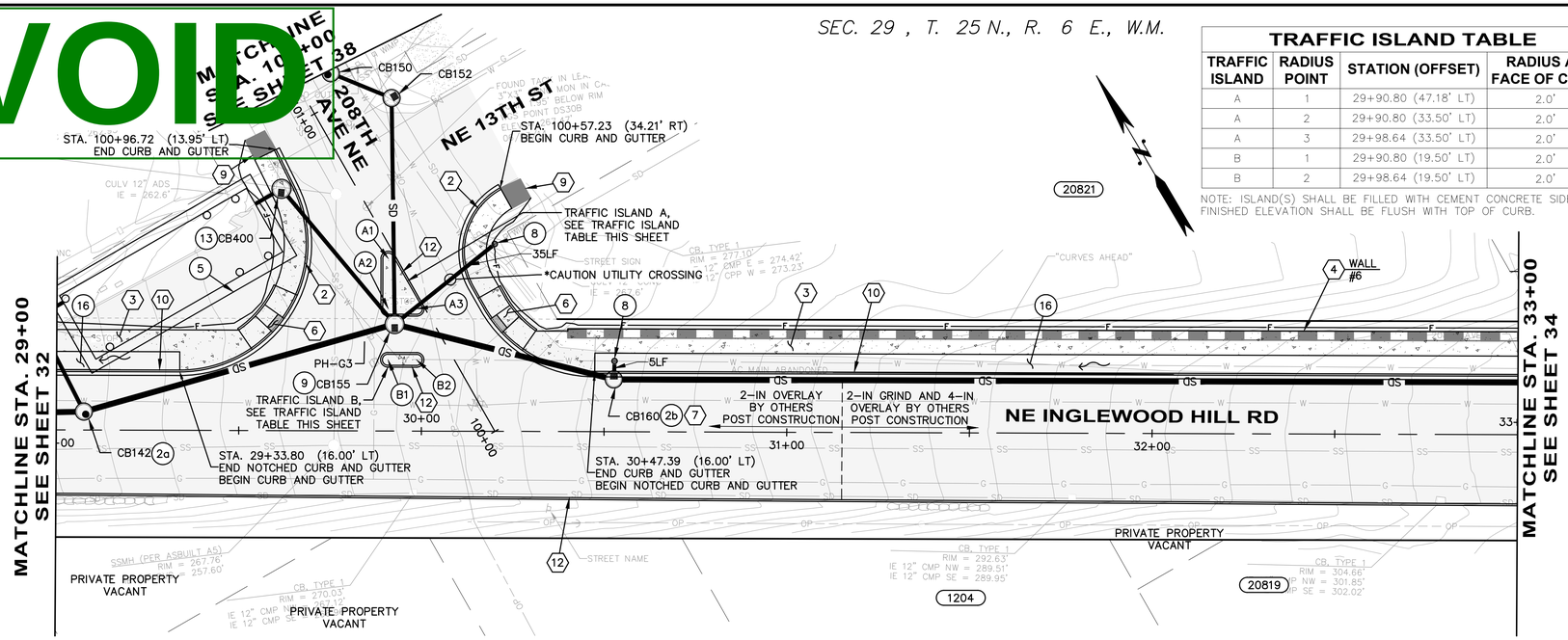
10-140008
OCI PROJECT NO.

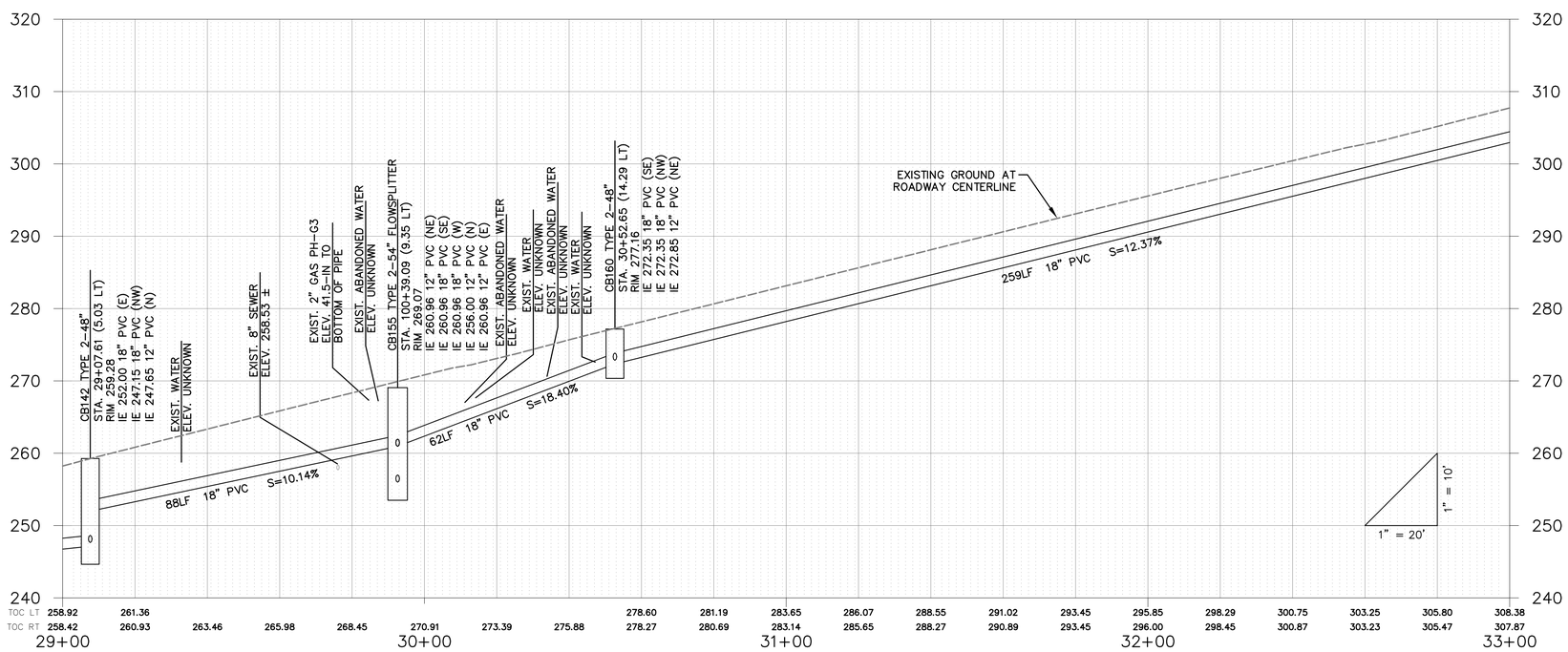
33 SHEET OF 89

PLOTTING DATE: 8/18/2016 USER: Travis FrankiFILE NAME: P:\10-140008 Inglewood Drainage\3 CADD\Sheets\P_10-140008_PP02.dwg

VOID

SEC. 29 , T. 25 N., R. 6 E., W.M.





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   b. Rectangular Vaned Grate per WSDOT Standard Plans B-30.30-01 and B-30.10-01.
3. MODULAR WETLAND SYSTEM PER DETAIL SHEETS 63 – 69, AND 77.
4. EXTEND EXISTING CULVERT PER DETAIL SHEET 77.
5. SAND FILTER VAULT SYSTEM PER DETAILS ON SHEETS 72 – 76.
6. DITCH MAINTENANCE PER SPECIFICATION 2-03.
7. FIELD ADJUST EXISTING FLEXIBLE WATER SERVICE LINE AS NEEDED.
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9. CATCH BASIN TYPE 2 FLOW SPLITTER WITH SOLID LID PER DETAIL 1 SHEET 79.
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11. RECTANGULAR VANED GRATE PER WSDOT STANDARD PLAN B-30.30-01.
12. CONNECTION TO DRAINAGE STRUCTURE PER WSDOT STANDARD SPECIFICATION 7-05.3(3).
13. CDS PRE-TREATMENT UNIT PER DETAIL SHEET 71.
14. CLEAN EXISTING CULVERT PER WSDOT STANDARD SPECIFICATION 7-07.
15. CULVERT END PROTECTION, 2-IN TO 4-IN ROCKS PER SPECIFICATION 8-15.
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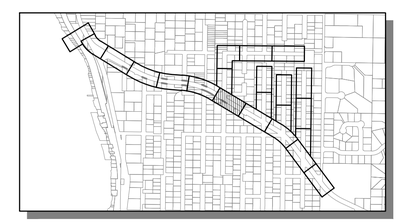
17. INSTALL EXISTING CB FLOW SPLITTER PER DETAIL 2, SHEET 79.
18. GRASS-LINED V-DITCH PER DETAIL SHEET 78.



KEY MAP
SCALE: 1"=1000'

811
Know what's below.
Call before you dig.

LAURA RUBELLA
STATE OF WASHINGTON
43848
REGISTERED PROFESSIONAL ENGINEER
4/20/16

SCALE BARS INDICATE SCALE OF FULL-SIZE (22 X 34 INCH) DRAWINGS. FOR REDUCED SIZE DRAWINGS ADJUST SCALE ACCORDINGLY.

NO.	DATE	BY	CKD.	REVISION

City of Sammamish Washington

OSBORN CONSULTING INCORPORATED
OSBORN CONSULTING, INC.
1800 112th Ave. NE, Suite 220E Ph (425) 451-4009
Bellevue, WA. 98004 Fax (425) 451-4901

DESIGNED BY: LCR
DRAWN BY: RDH
CHECKED BY: LAT
DATE: FEB. 2016

INGLEWOOD HILL STORMWATER AND NON-MOTORIZED IMPROVEMENTS
ROADWAY AND DRAINAGE
STA. 29+00 TO STA. 33+00

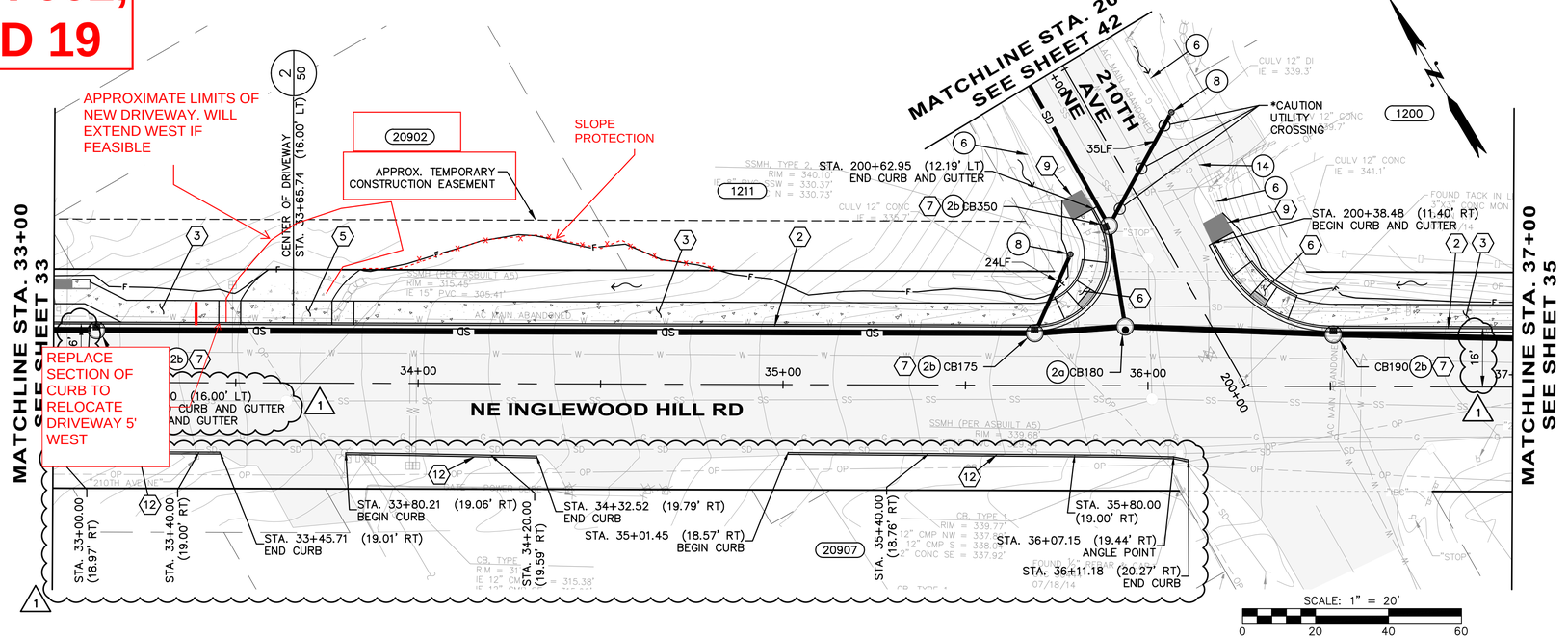
10-140008
OCI PROJECT NO.

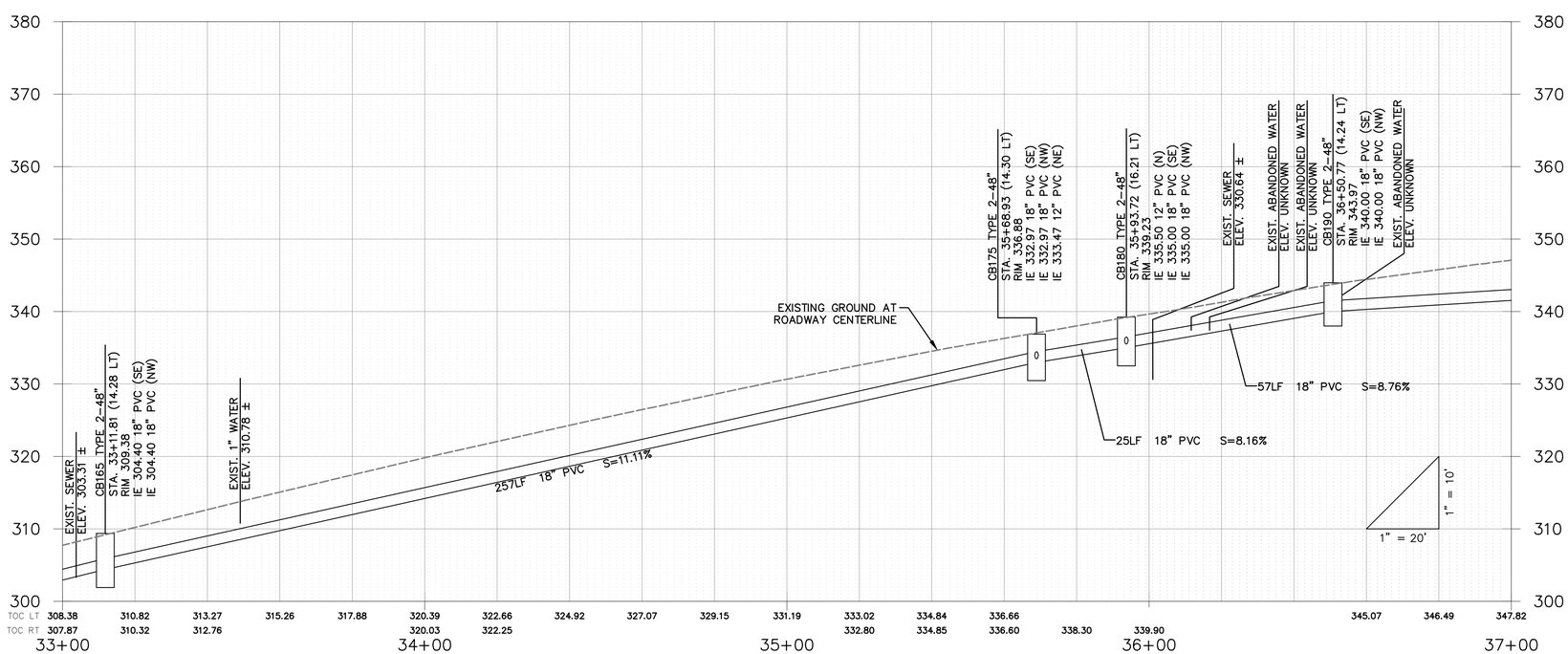
SHEET 33 OF 89

PLOTTING DATE: 4/20/2016 USER: Travis FrankIFILE NAME: P:\10-140008 Inglewood Drainage\3 CADD\Sheets\P_10-140008_PP02.dwg

RFI 002, FD 19

SEC. 29 , T. 25 N., R. 6 E., W.M.





GENERAL NOTES:

1. SEE SHEET 25 FOR TYPICAL ROADWAY SECTIONS. SEE SHEET 78 FOR TRENCH RESTORATION DETAILS.
2. SEE SHEET 26 FOR CURB AND RAINGARDEN DETAILS.
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4. ALL STATIONS AND OFFSETS FOR CURBING ARE TO FACE OF CURB, AND STRUCTURES ARE TO CENTER OF STRUCTURE, UNLESS OTHERWISE NOTED.

ROADWAY NOTES:

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2. CEMENT CONCRETE TRAFFIC CURB AND GUTTER PER WSDOT STANDARD PLAN F–10.12–03.
3. CEMENT CONCRETE SIDEWALK PER MODIFIED WSDOT STANDARD PLAN F–30.10–03. MODIFICATIONS INCLUDE 10–FT EXPANSION JOINT SPACING AND 5–FT BROOMED FINISH SPACING.
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7. CEMENT CONCRETE CURB AND GUTTER PAN PER WSDOT STANDARD PLAN F–10.16–00.
8. COMBINATION CURB RAMP PER WSDOT STANDARD PLAN F–40.14–02.
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10. CEMENT CONCRETE NOTCHED CURB AND GUTTER PER DETAIL ON SHEET 26.
    a. curb inlet opening location per detail sheet 77.
11. TYPE PARALLEL B CURB RAMP PER WSDOT STANDARD PLAN F–40.12–02.
12. CEMENT CONCRETE TRAFFIC CURB PER WSDOT STANDARD PLAN F–10.12–03. SEE SECTION G, SHEET 25.
13. SINGLE DIRECTION CURB RAMP PER WSDOT STANDARD PLAN F–40.16–02.
14. 3/8–IN PRE–MOLDED JOINT FILLER PER WSDOT STANDARD PLAN F–30.10–03.

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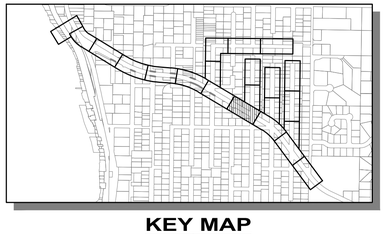


KEY MAP
SCALE: 1"=1000'

811 Know what's below. Call before you dig.

LAURA RUPPERT STATE OF WASHINGTON 43848 REGISTERED PROFESSIONAL ENGINEER

SCALE BARS INDICATE SCALE OF FULL-SIZE (22 X 34 INCH) DRAWINGS. FOR REDUCED SIZE DRAWINGS ADJUST SCALE ACCORDINGLY.

NO.	DATE	BY	CKD.	REVISION
1	7/1/16	TNF	LR	RFI–002 VERTICAL DATUM

City of Sammamish Washington

OSBORN CONSULTING INCORPORATED
OSBORN CONSULTING, INC.
1800 112th Ave. NE, Suite 220E Ph (425) 451–4009
Bellevue, WA. 98004 Fax (425) 451–4901

DESIGNED BY: LCR
DRAWN BY: RDH
CHECKED BY: LAT
DATE: FEB. 2016

INGLEWOOD HILL STORMWATER AND NON-MOTORIZED IMPROVEMENTS
ROADWAY AND DRAINAGE
STA. 33+00 TO STA. 37+00

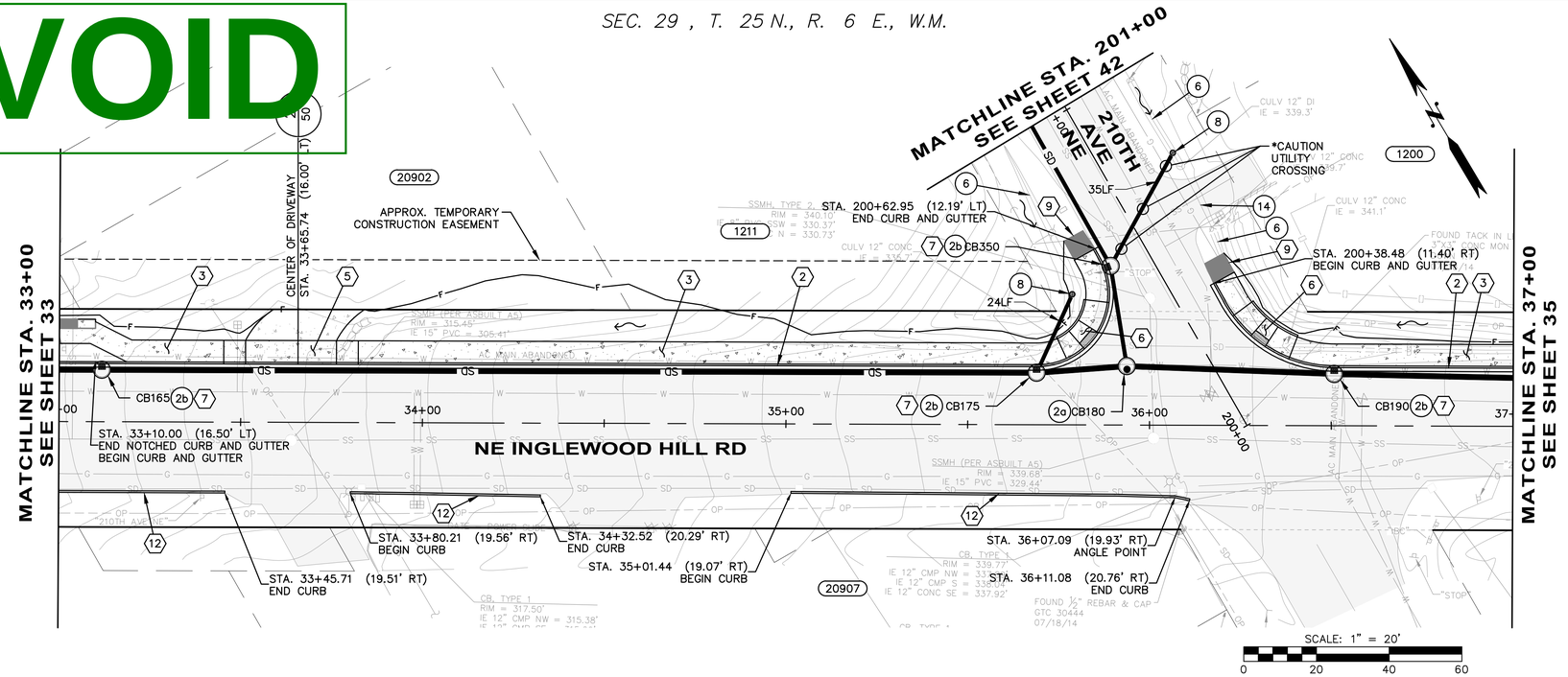
10-140008
OCI PROJECT NO.

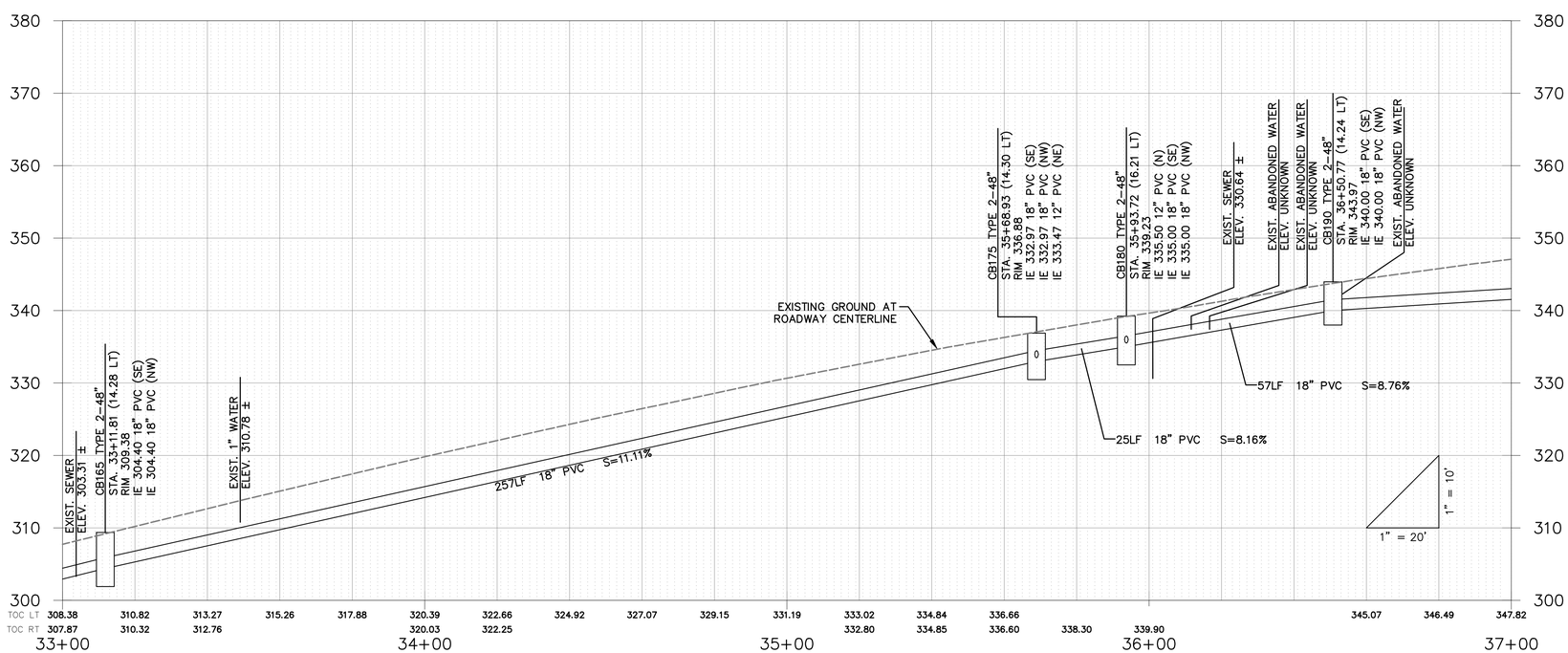
SHEET 34 OF 89

PLOTTING DATE: 7/1/2016 USER: Travis FrankirFILE NAME: P:\10-140008 Inglewood Drainage\3 CADD\Sheets\P_10-140008_PP02.dwg

VOID

SEC. 29 , T. 25 N., R. 6 E., W.M.





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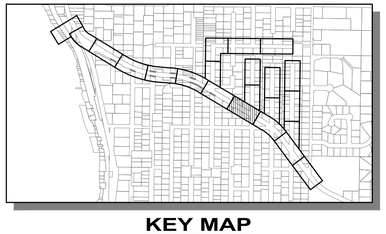

KEY MAP
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LAURA RUPPERT
STATE OF WASHINGTON
43848
REGISTERED PROFESSIONAL ENGINEER
4/20/16

SCALE BARS INDICATE SCALE OF FULL-SIZE (22 X 34 INCH) DRAWINGS. FOR REDUCED SIZE DRAWINGS ADJUST SCALE ACCORDINGLY.

NO.	DATE	BY	CKD.	REVISION

City of Sammamish Washington

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Bellevue, WA. 98004 Fax (425) 451–4901

DESIGNED BY: LCR
DRAWN BY: RDH
CHECKED BY: LAT
DATE: FEB. 2016

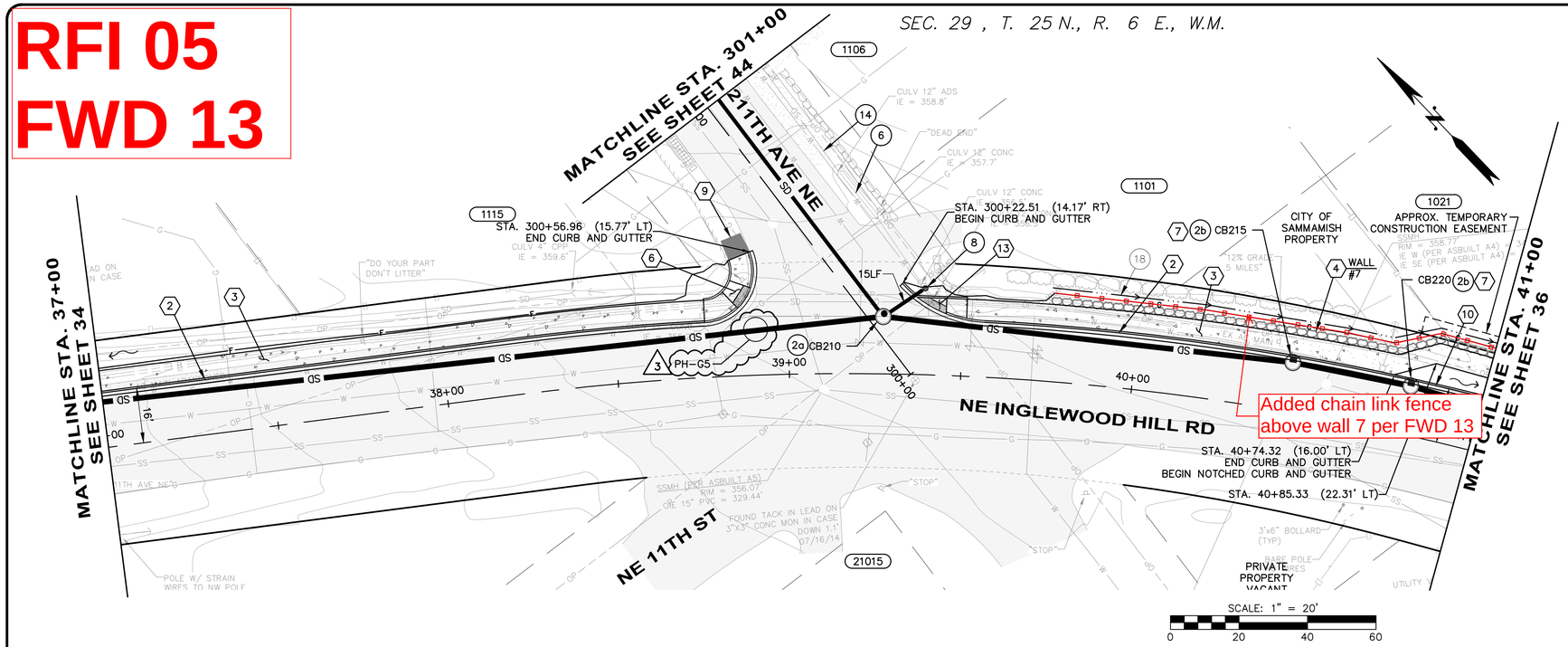
INGLEWOOD HILL STORMWATER AND NON-MOTORIZED IMPROVEMENTS
ROADWAY AND DRAINAGE
STA. 33+00 TO STA. 37+00

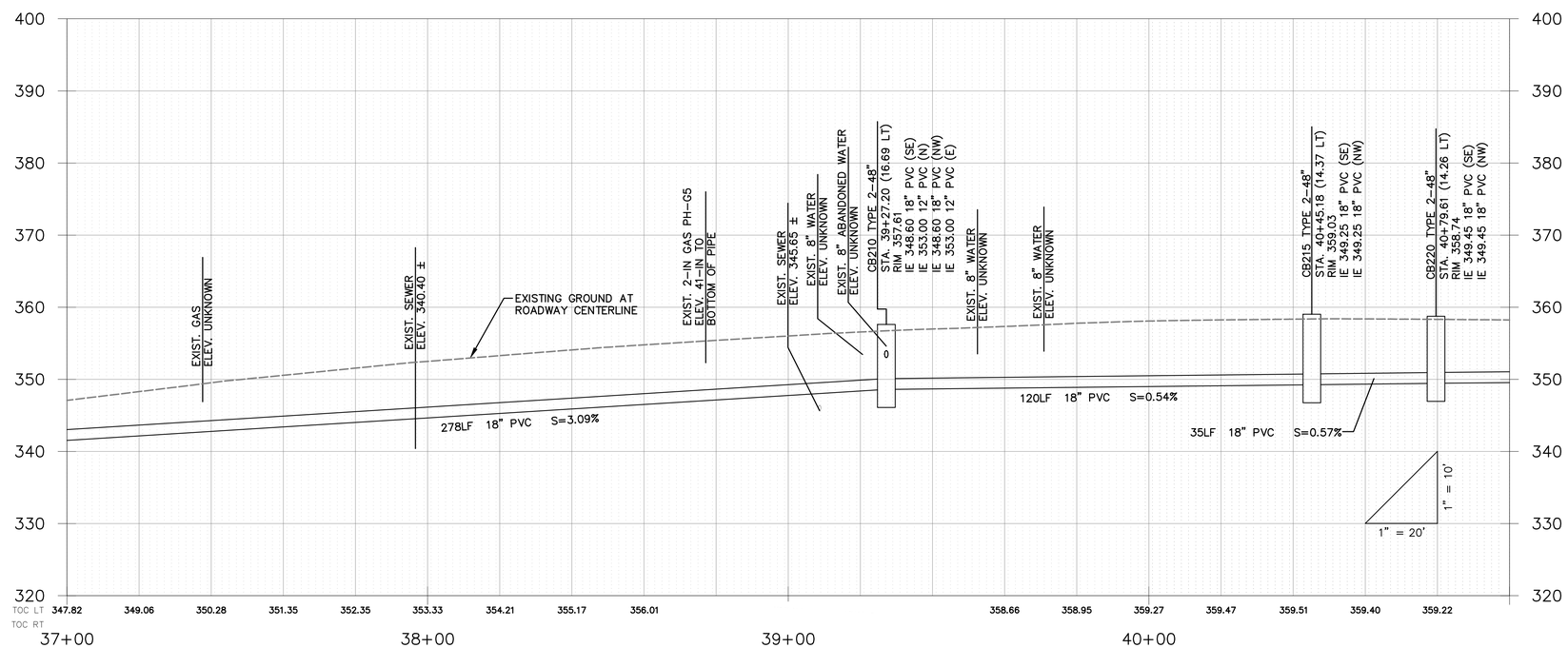
10-140008
OCI PROJECT NO.

34 SHEET OF 89

PLOTTING DATE: 4/20/2016 USER: Travis Franklin FILE NAME: P:\10-140008 Inglewood Drainage\3 CADD\Sheets\P-10-140008_PP02.dwg

RFI 05
FWD 13





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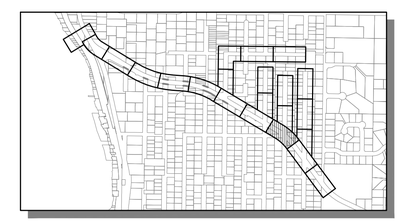

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NO.	DATE	BY	CKD.	REVISION
3	7/7/16	TNF	LR	RFI-005 UTILITY ADJUSTMENTS
1	7/1/16	TNF	LR	RFI-002 VERTICAL DATUM

City of Sammamish Washington

OSBORN CONSULTING INCORPORATED
OSBORN CONSULTING, INC.
1800 112th Ave. NE, Suite 220E Ph (425) 451-4009
Bellevue, WA. 98004 Fax (425) 451-4901

DESIGNED BY: LCR
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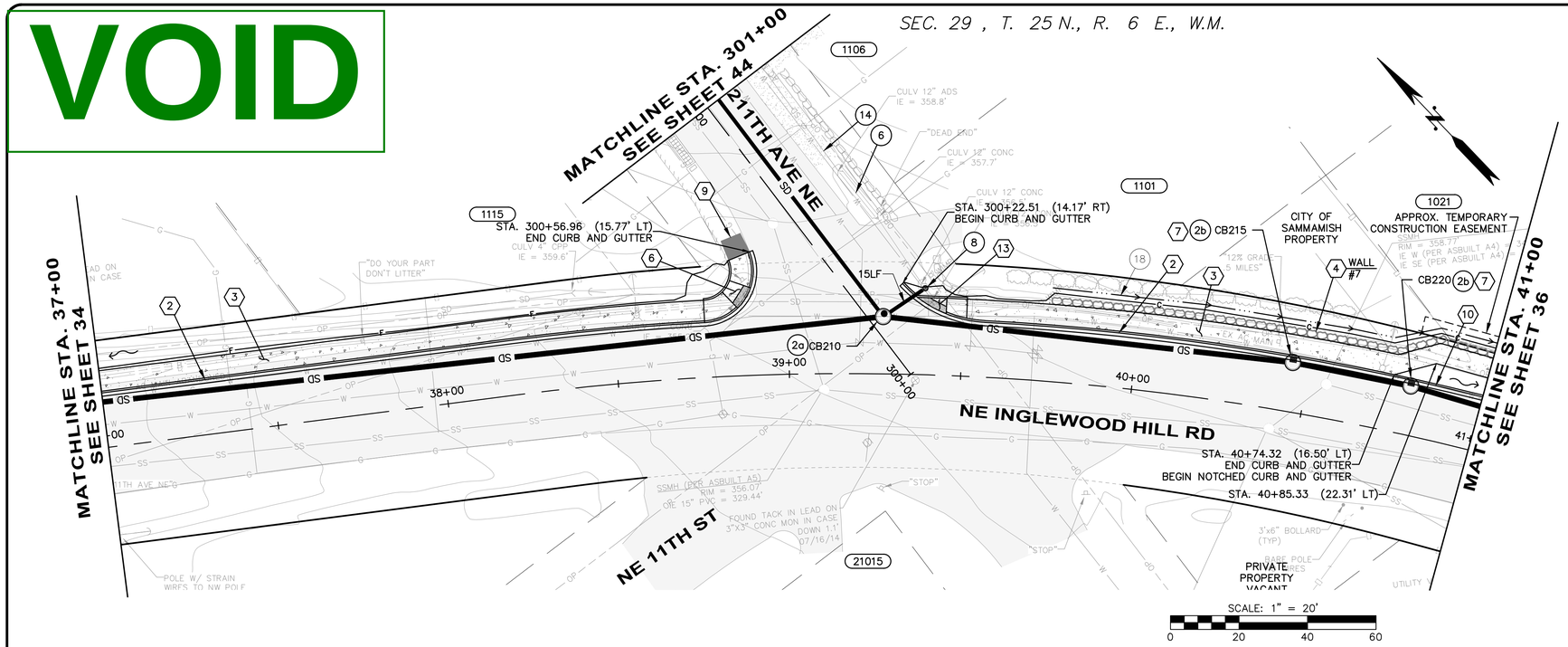
INGLEWOOD HILL STORMWATER AND NON-MOTORIZED IMPROVEMENTS
ROADWAY AND DRAINAGE
STA. 37+00 TO STA. 41+00

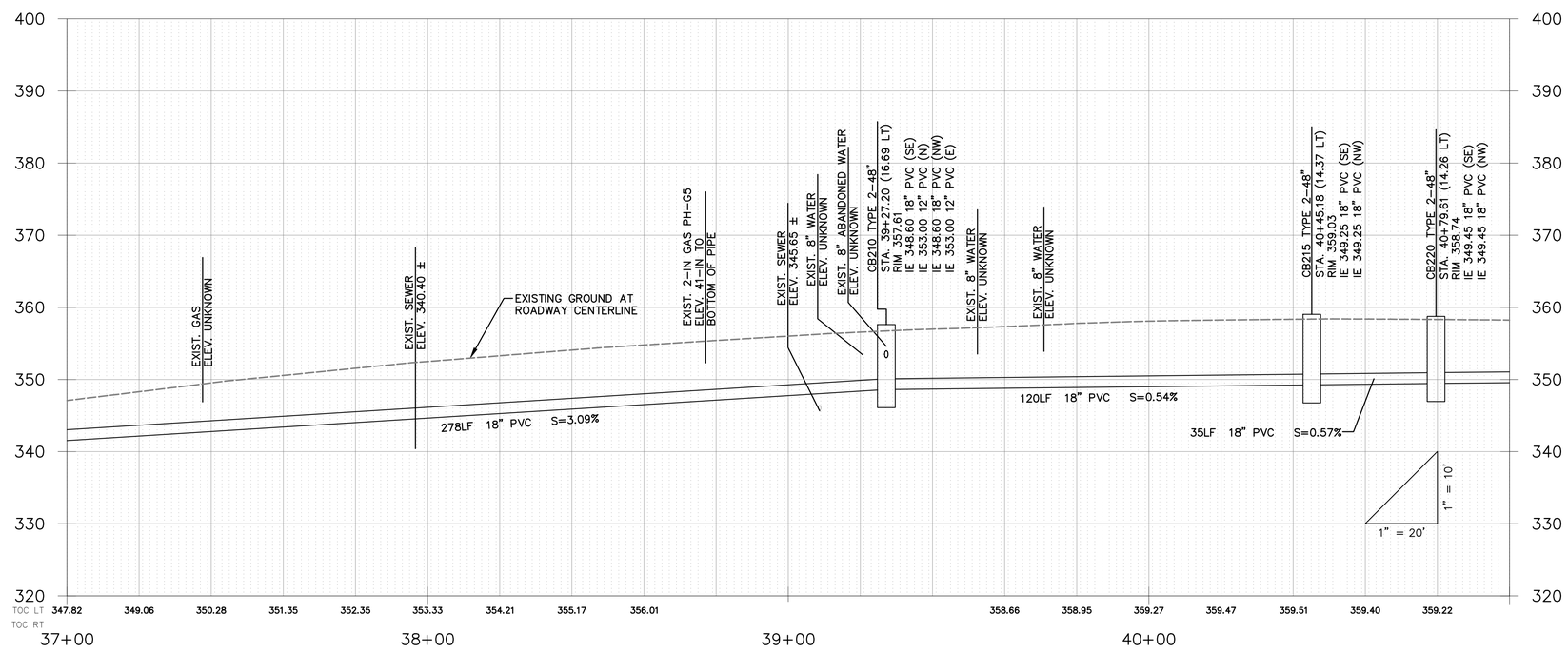
10-140008
OCI PROJECT NO.

35 SHEET OF 89

PLOTTING DATE: 7/7/2016 USER: Travis FranklinFILE NAME: P:\10-140008 Inglewood Drainage\3 CADD\Sheets\P_10-140008_PP02.dwg

VOID





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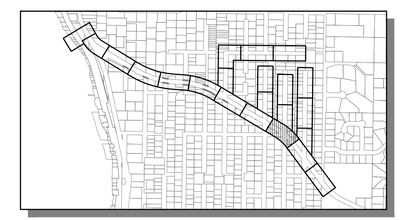

KEY MAP
SCALE: 1"=1000'

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LAURA RUPPERT
STATE OF WASHINGTON
43848
REGISTERED PROFESSIONAL ENGINEER
4/20/16

SCALE BARS INDICATE SCALE OF FULL-SIZE (22 X 34 INCH) DRAWINGS. FOR REDUCED SIZE DRAWINGS ADJUST SCALE ACCORDINGLY.

NO.	DATE	BY	CKD.	REVISION

City of Sammamish Washington

OSBORN CONSULTING INCORPORATED
OSBORN CONSULTING, INC.
1800 112th Ave. NE, Suite 220E Ph (425) 451-4009
Bellevue, WA. 98004 Fax (425) 451-4901

DESIGNED BY: LCR
DRAWN BY: RDH
CHECKED BY: LAT
DATE: FEB. 2016

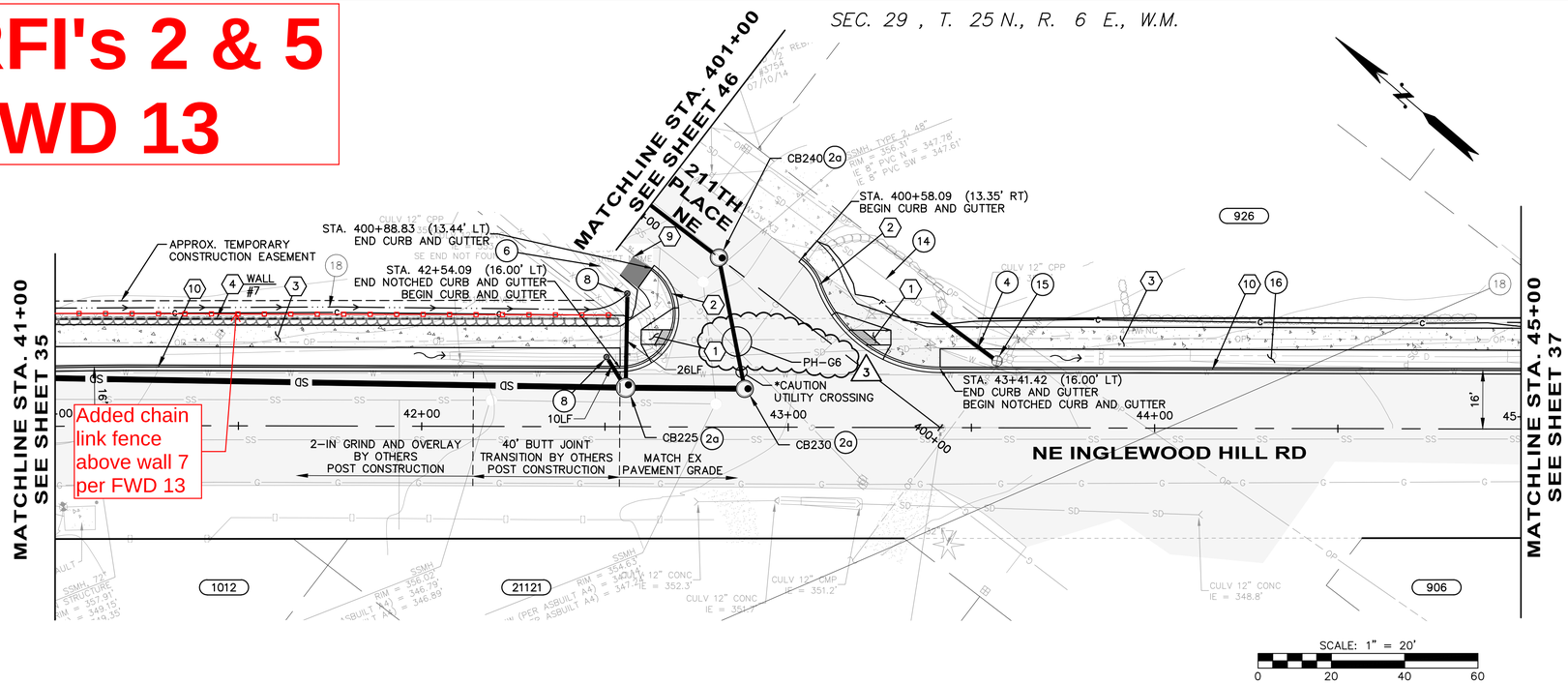
INGLEWOOD HILL STORMWATER AND NON-MOTORIZED IMPROVEMENTS
ROADWAY AND DRAINAGE
STA. 37+00 TO STA. 41+00

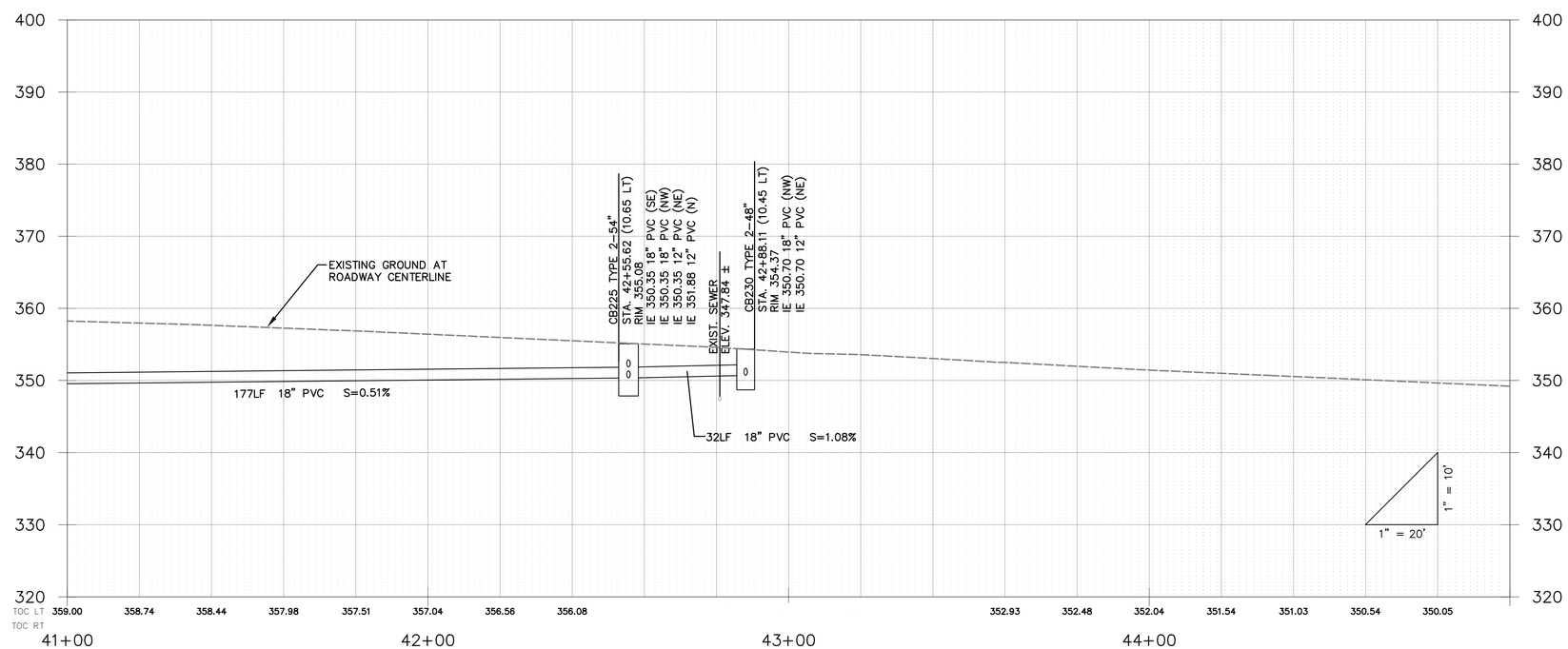
10-140008
OCI PROJECT NO.

35 SHEET OF 89

PLOTTING DATE: 4/20/2016 USER: Travis FranklinFILE NAME: P:\10-140008 Inglewood Drainage\3 CADD\Sheets\P_10-140008_PP02.dwg

RFI's 2 & 5
FWD 13





GENERAL NOTES:

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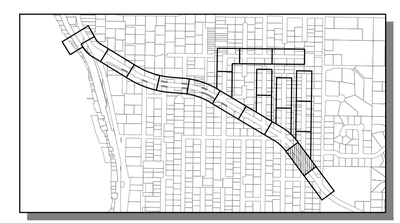

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NO.	DATE	BY	CKD.	REVISION
3	7/7/16	TNF	LR	RFI-005 UTILITY ADJUSTMENTS
1	7/1/16	TNF	LR	RFI-002 VERTICAL DATUM

City of Sammamish Washington

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DESIGNED BY: LCR
DRAWN BY: RDH
CHECKED BY: LAT
DATE: FEB. 2016

INGLEWOOD HILL STORMWATER AND NON-MOTORIZED IMPROVEMENTS
ROADWAY AND DRAINAGE
STA. 41+00 TO STA. 45+00

10-140008
OCI PROJECT NO.

PLOTTING DATE: 7/7/2016 USER: Travis Franklin FILE NAME: P:\10-140008 Inglewood Drainage\3 CADD\Sheets\P_10-140008_PP02.dwg

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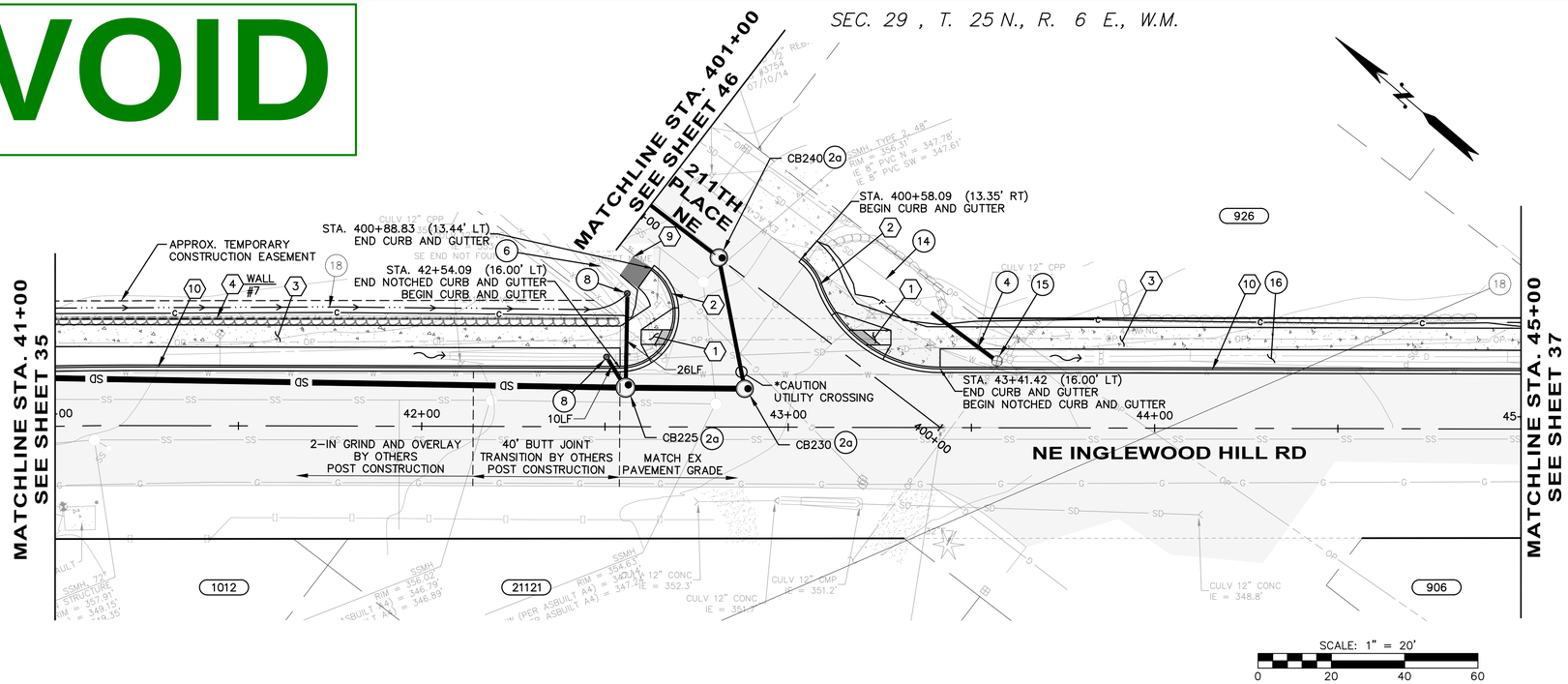

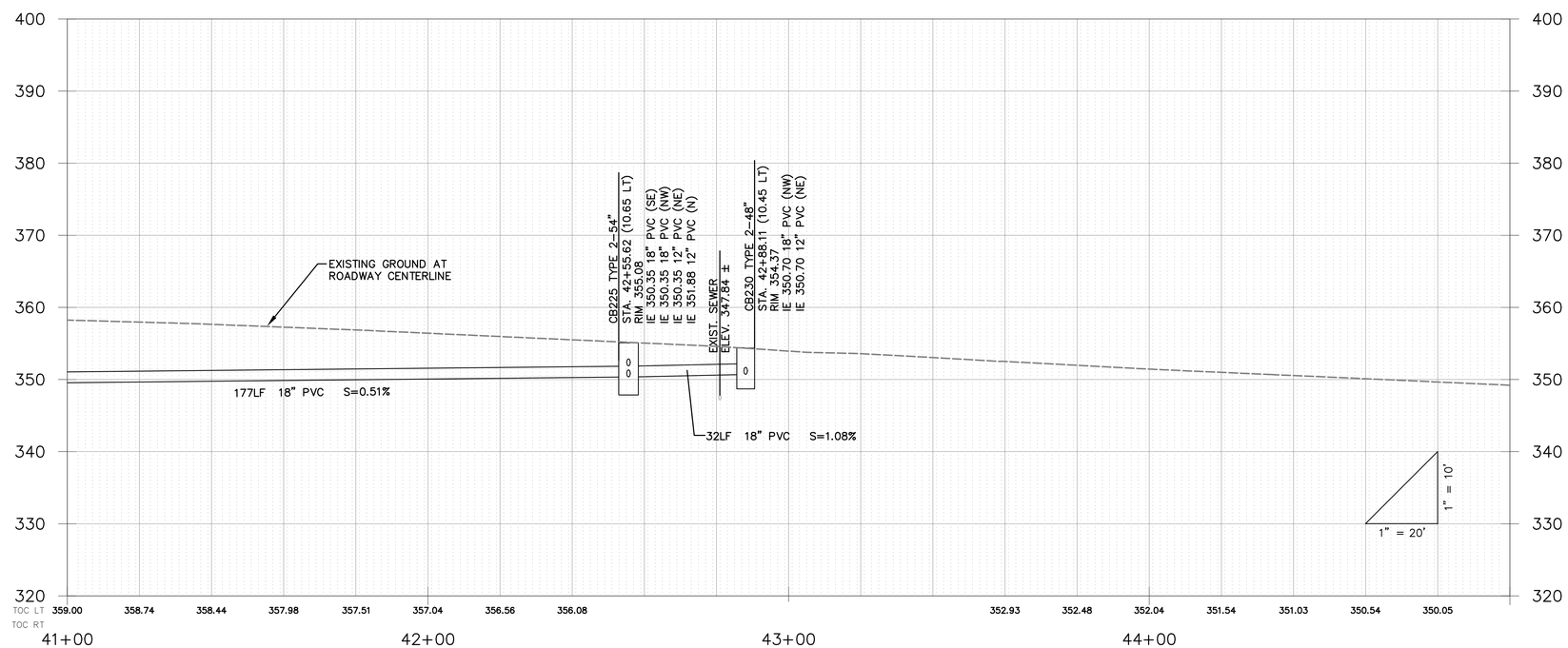

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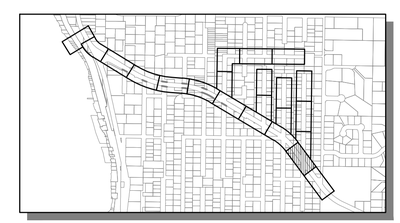

KEY MAP
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STATE OF WASHINGTON
43846
REGISTERED
PROFESSIONAL ENGINEER
4/20/16

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NO.	DATE	BY	CKD.	REVISION

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Bellevue, WA. 98004 Fax (425) 451–4901

DESIGNED BY: LCR
DRAWN BY: RDH
CHECKED BY: LAT
DATE: FEB. 2016

INGLEWOOD HILL STORMWATER AND NON-MOTORIZED IMPROVEMENTS
ROADWAY AND DRAINAGE
STA. 41+00 TO STA. 45+00

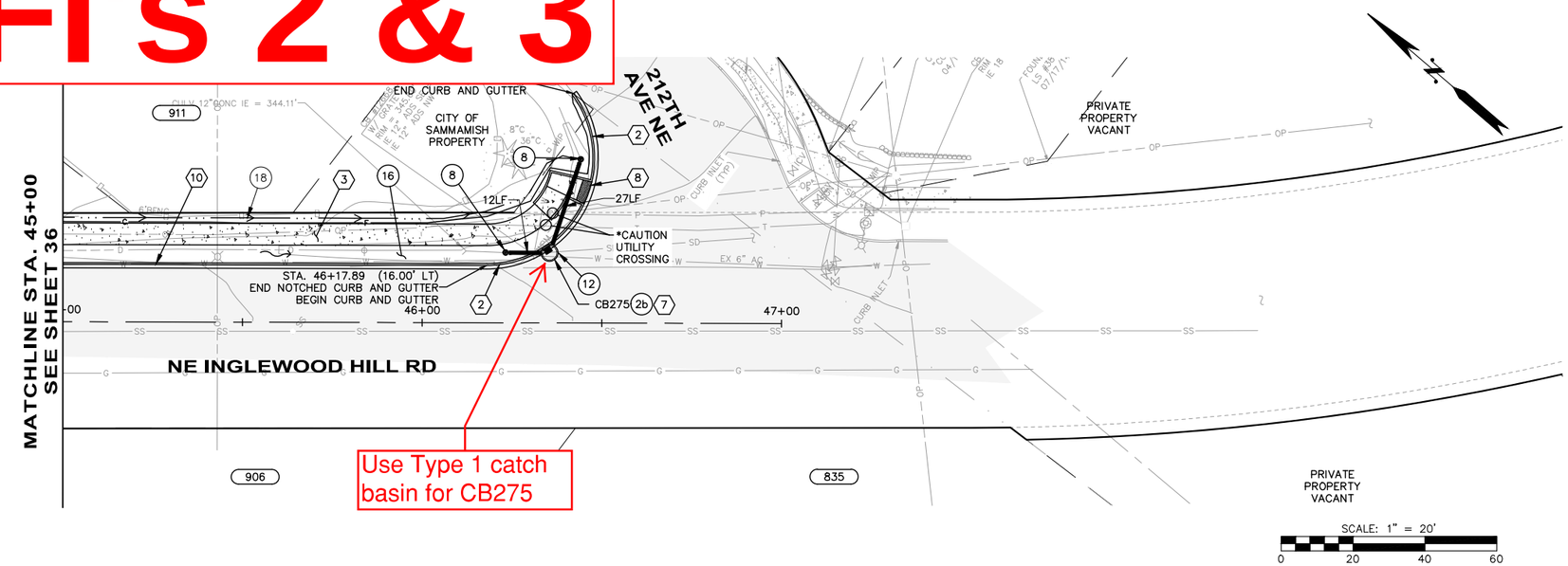
10-140008
OCI PROJECT NO.

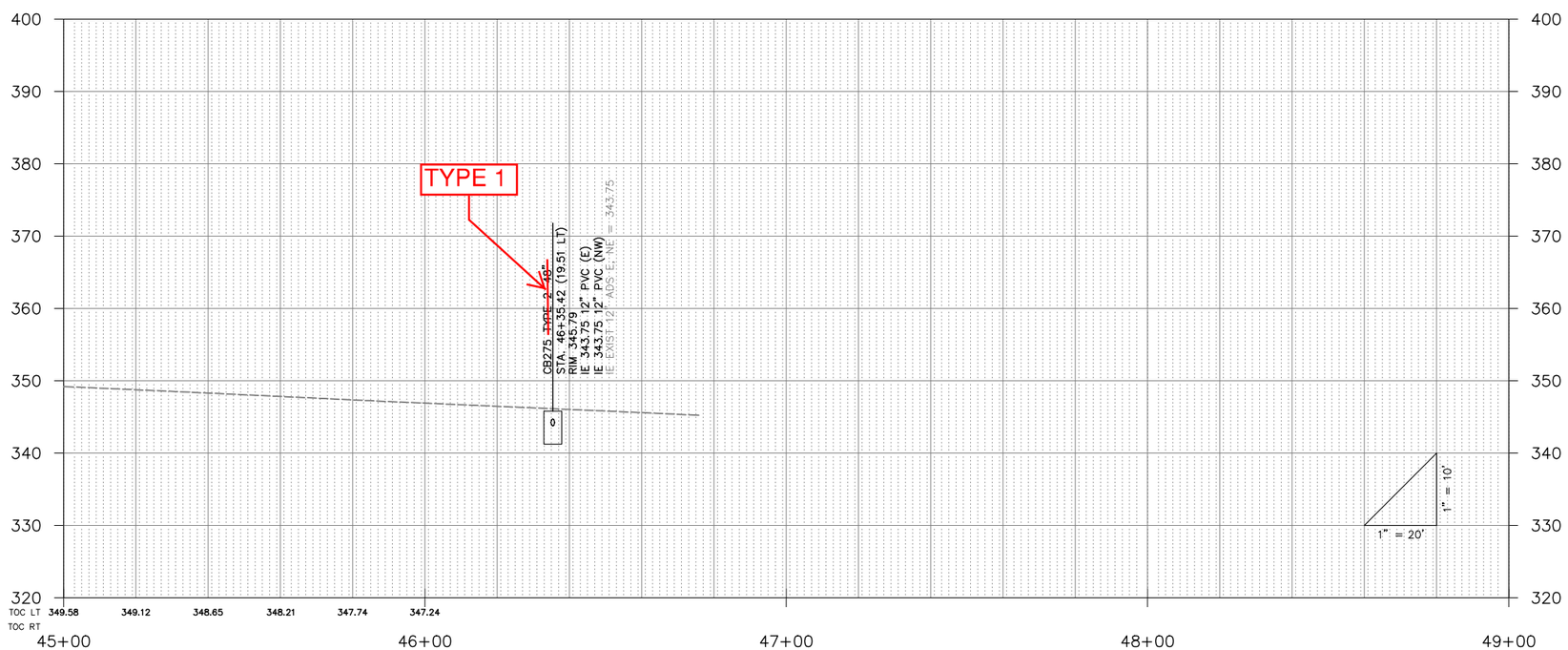
36 SHEET OF 89

PLOTTING DATE: 4/20/2016 USER: Travis Franklin FILE NAME: P:\10-140008 Inglewood Drainage\3 CADD\Sheets\P_10-140008_PP02.dwg

RFI's 2 & 3

SEC. 29 , T. 25 N., R. 6 E., W.M.





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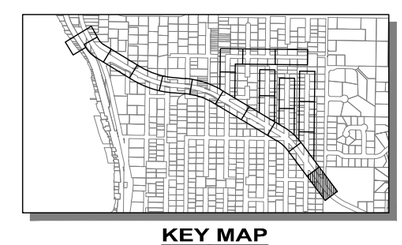

KEY MAP
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43646
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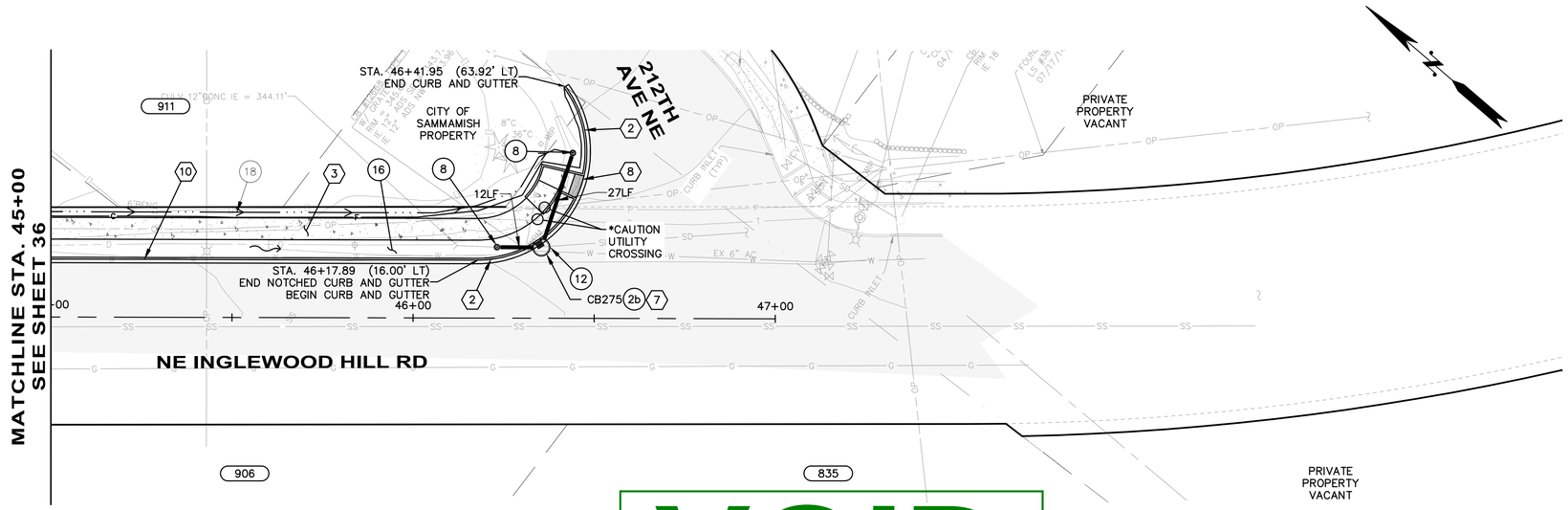
10-140008
OCI PROJECT NO.

37 SHEET OF 89

PLOTTING DATE: 4/20/2016 USER: Travis FranklinFILE NAME: P:\10-140008 Inglewood Drainage\3 CADD\Sheets\P_10-140008_PP02.dwg

SEC. 29 , T. 25 N., R. 6 E., W.M.



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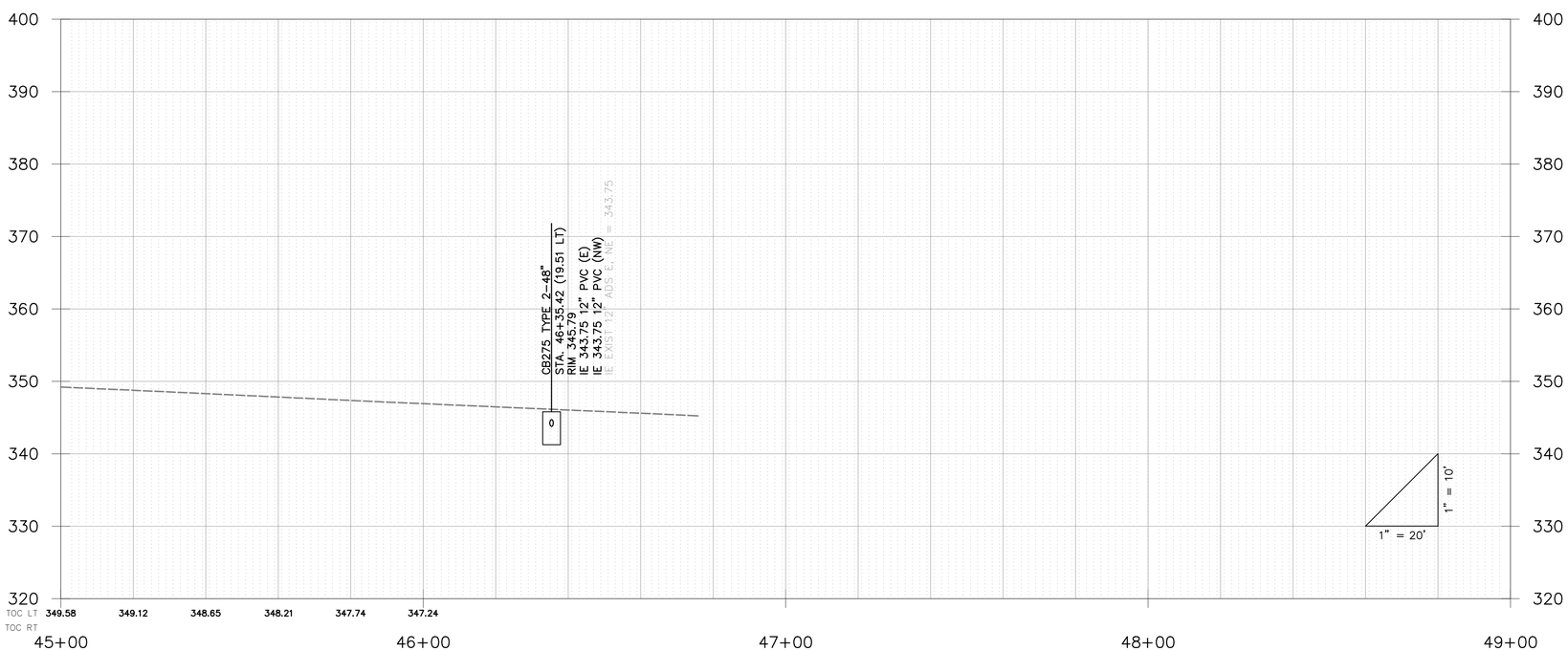

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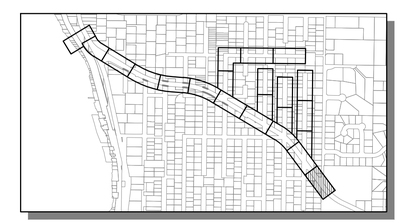

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PROFESSIONAL ENGINEER
4/20/16

SCALE BARS INDICATE SCALE OF FULL-SIZE (22 X 34 INCH) DRAWINGS. FOR REDUCED SIZE DRAWINGS ADJUST SCALE ACCORDINGLY.

NO.	DATE	BY	CKD.	REVISION

City of Sammamish Washington

OSBORN CONSULTING INCORPORATED
OSBORN CONSULTING, INC.
1800 112th Ave. NE, Suite 220E Ph (425) 451–4009
Bellevue, WA. 98004 Fax (425) 451–4901

DESIGNED BY: LCR
DRAWN BY: RDH
CHECKED BY: LAT
DATE: FEB. 2016

INGLEWOOD HILL STORMWATER AND NON-MOTORIZED IMPROVEMENTS
ROADWAY AND DRAINAGE
STA. 45+00 TO STA. 47+00

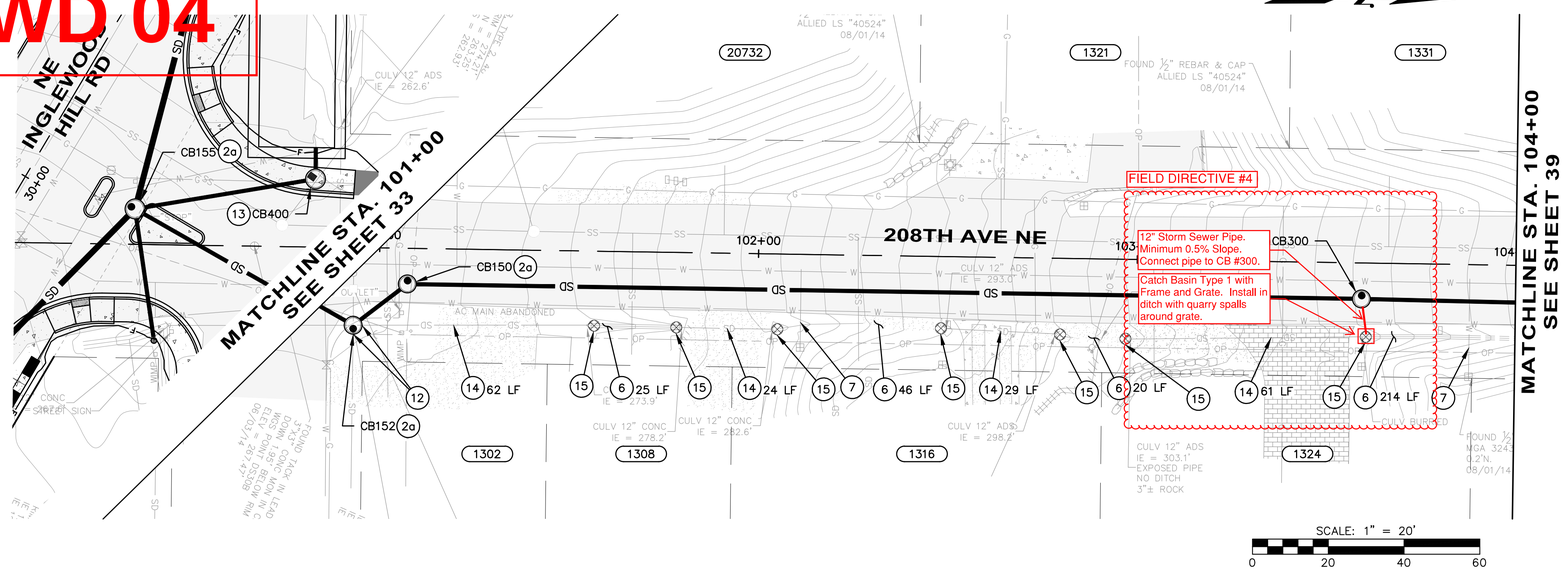
10-140008
OCI PROJECT NO.

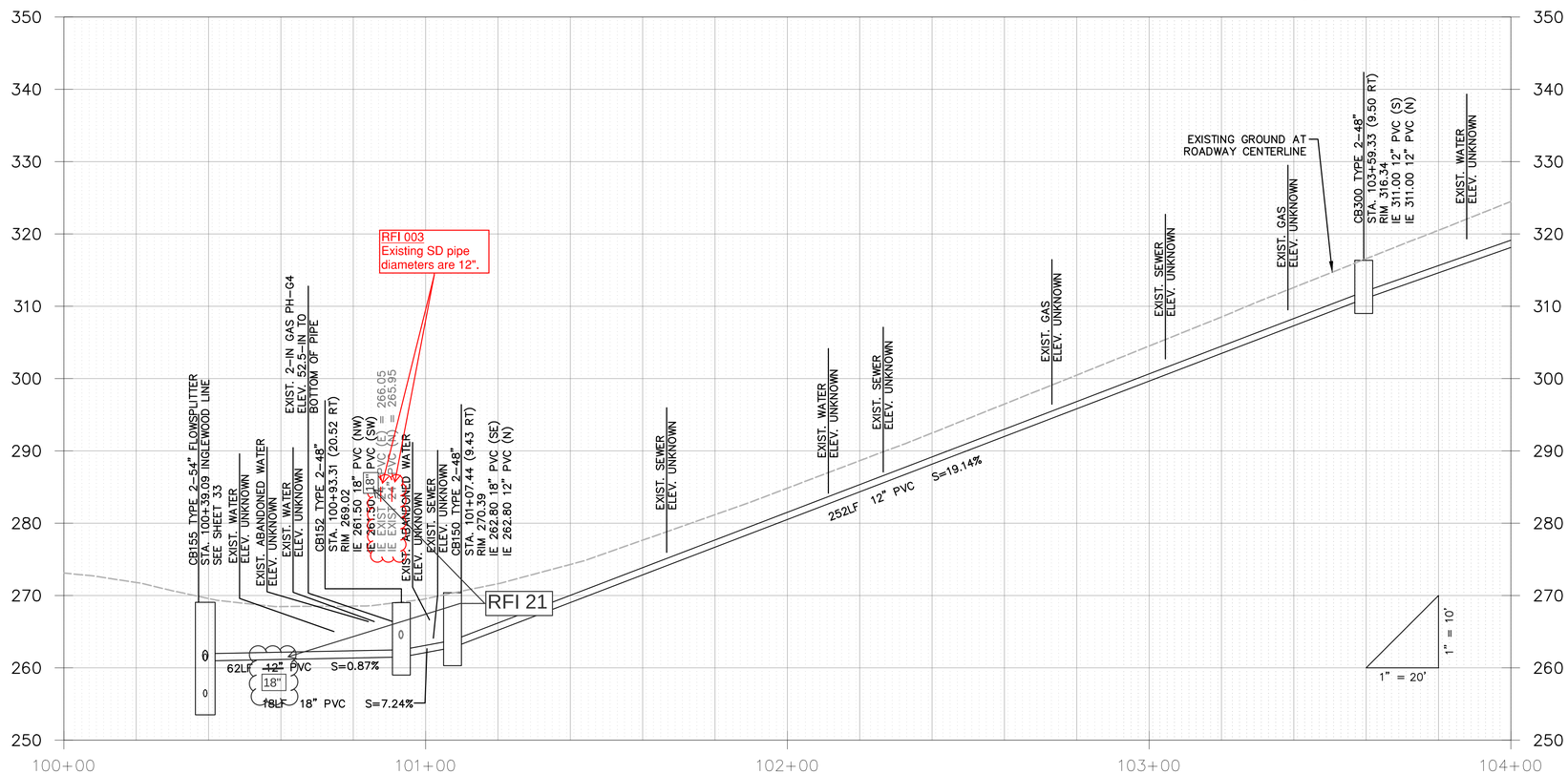
37 SHEET OF 89

PLOTTING DATE: 4/20/2016 USER: Travis FranklinFILE NAME: P:\10-140008 Inglewood Drainage\3 CADD\Sheets\P_10-140008_PP02.dwg

FWD 04

SEC. 29 , T. 25 N., R. 6 E., W.M.





GENERAL NOTES:

1. SEE SHEET 25 FOR TYPICAL ROADWAY SECTIONS. SEE SHEET 78 FOR TRENCH RESTORATION DETAILS.
2. SEE SHEET 26 FOR CURB AND RAINGARDEN DETAILS.
3. SEE SHEETS 49 – 53 FOR CURB RETURNS AND DRIVEWAY DETAILS.
4. ALL STATIONS AND OFFSETS FOR CURBING ARE TO FACE OF CURB, AND STRUCTURES ARE TO CENTER OF STRUCTURE, UNLESS OTHERWISE NOTED.

ROADWAY NOTES:

1. PERPENDICULAR CURB RAMP TYPE A PER WSDOT STANDARD PLAN F–40.15–02.
2. CEMENT CONCRETE TRAFFIC CURB AND GUTTER PER WSDOT STANDARD PLAN F–10.12–03.
3. CEMENT CONCRETE SIDEWALK PER MODIFIED WSDOT STANDARD PLAN F–30.10–03. MODIFICATIONS INCLUDE 10–FT EXPANSION JOINT SPACING AND 5–FT BROOMED FINISH SPACING.
4. RETAINING WALL, SEE SHEETS 54 – 62 FOR WALL PLAN AND PROFILES.
5. CEMENT CONCRETE DRIVEWAY ENTRANCE TYPE 1 PER WSDOT STANDARD PLAN F–80.10–03.
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10. CEMENT CONCRETE NOTCHED CURB AND GUTTER PER DETAIL ON SHEET 26.
    a. curb inlet opening location per detail sheet 77.
11. TYPE PARALLEL B CURB RAMP PER WSDOT STANDARD PLAN F–40.12–02.
12. CEMENT CONCRETE TRAFFIC CURB PER WSDOT STANDARD PLAN F–10.12–03. SEE SECTION G, SHEET 25.
13. SINGLE DIRECTION CURB RAMP PER WSDOT STANDARD PLAN F–40.16–02.
14. 3/8–IN PRE–MOLDED JOINT FILLER PER WSDOT STANDARD PLAN F–30.10–03.

DRAINAGE NOTES:

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2. CATCH BASIN TYPE 2 PER WSDOT STANDARD PLAN B–10.20–01
   a. Circular Frame (Ring) and Cover per WSDOT Standard Plan B–30.70–03 with solid locking lid.
   b. Rectangular Vaned Grate per WSDOT Standard Plans B–30.30–01 and B–30.10–01.
3. MODULAR WETLAND SYSTEM PER DETAIL SHEETS 63 – 69, AND 77.
4. EXTEND EXISTING CULVERT PER DETAIL SHEET 77.
5. SAND FILTER VAULT SYSTEM PER DETAILS ON SHEETS 72 – 76.
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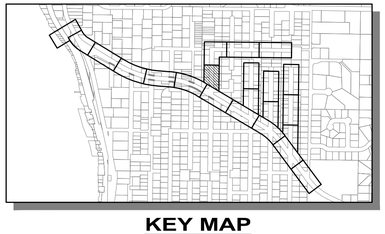

KEY MAP
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43848
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ROADWAY AND DRAINAGE
STA. 101+00 TO STA. 104+00

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OCI PROJECT NO.

38 SHEET OF 89

PLOTTING DATE: 4/20/2016 USER: Travis Franklin FILE NAME: P:\10-140008 Inglewood Drainage\3 CADD\Sheets\P_10-140008_PP03.dwg

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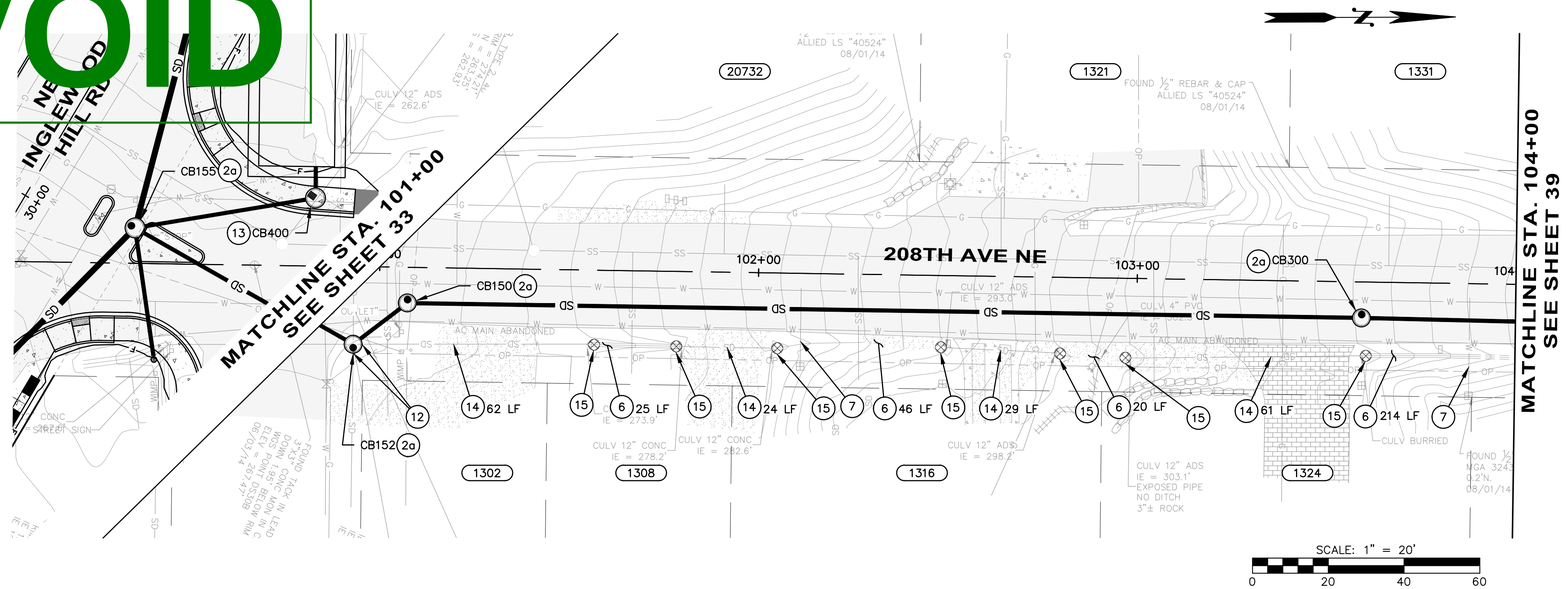
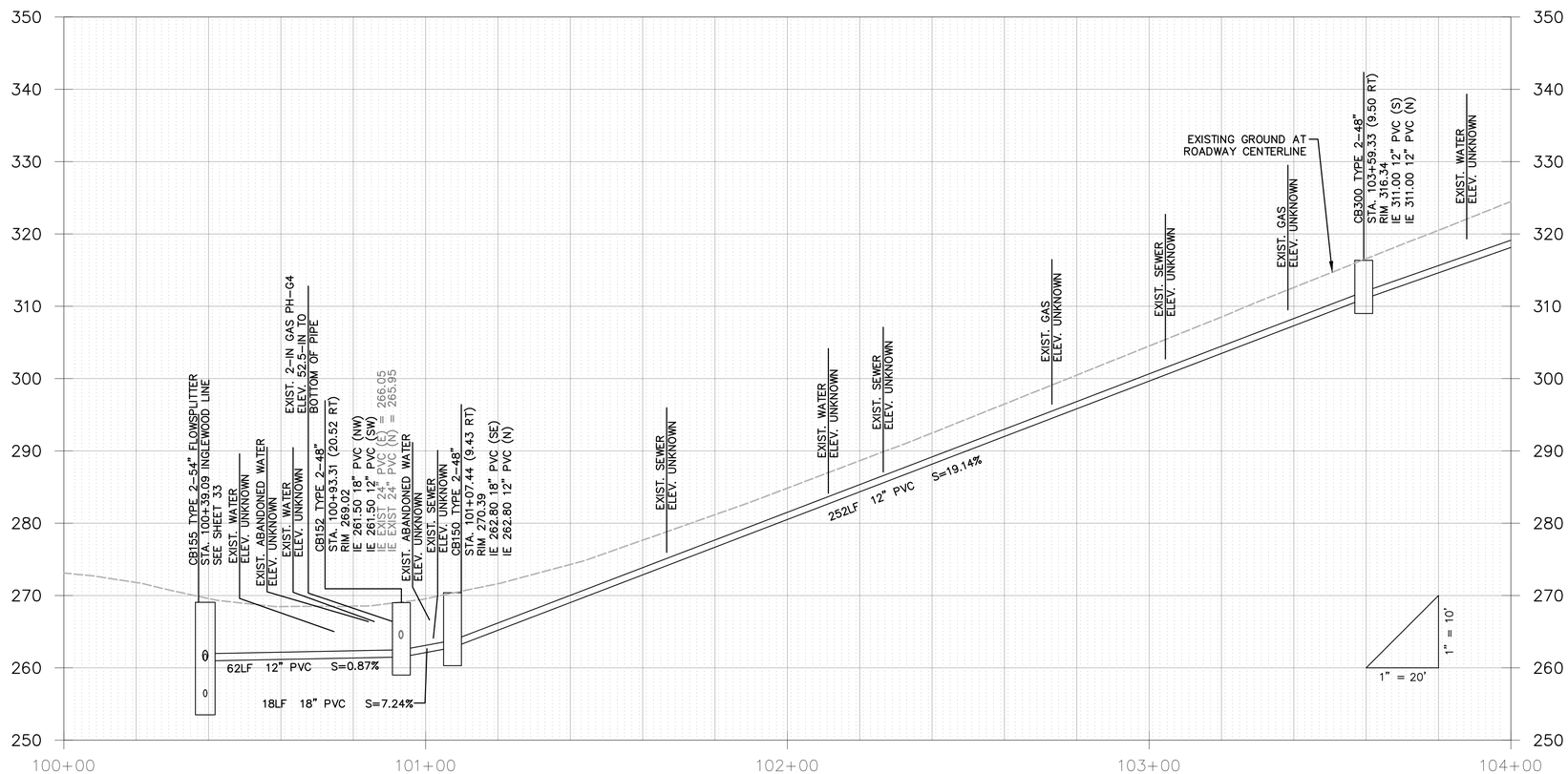
SEC. 29 , T. 25 N., R. 6 E., W.M.





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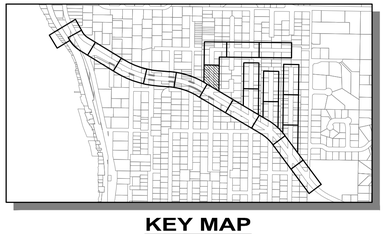

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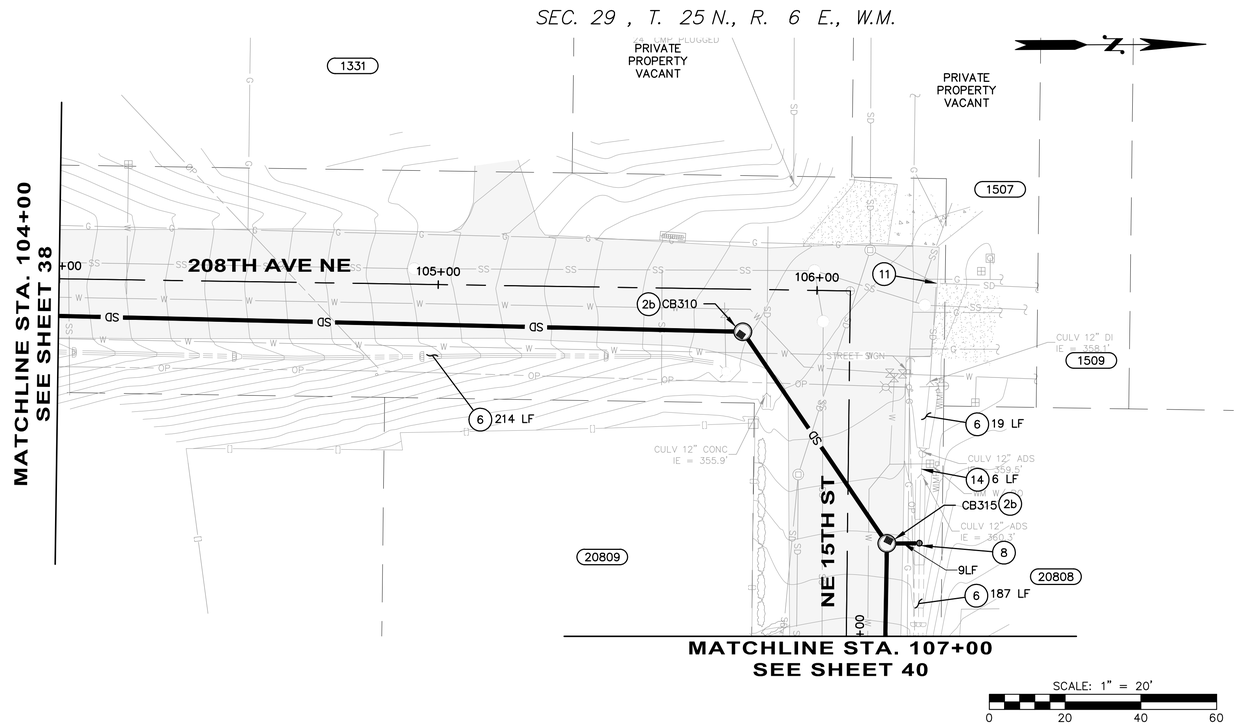

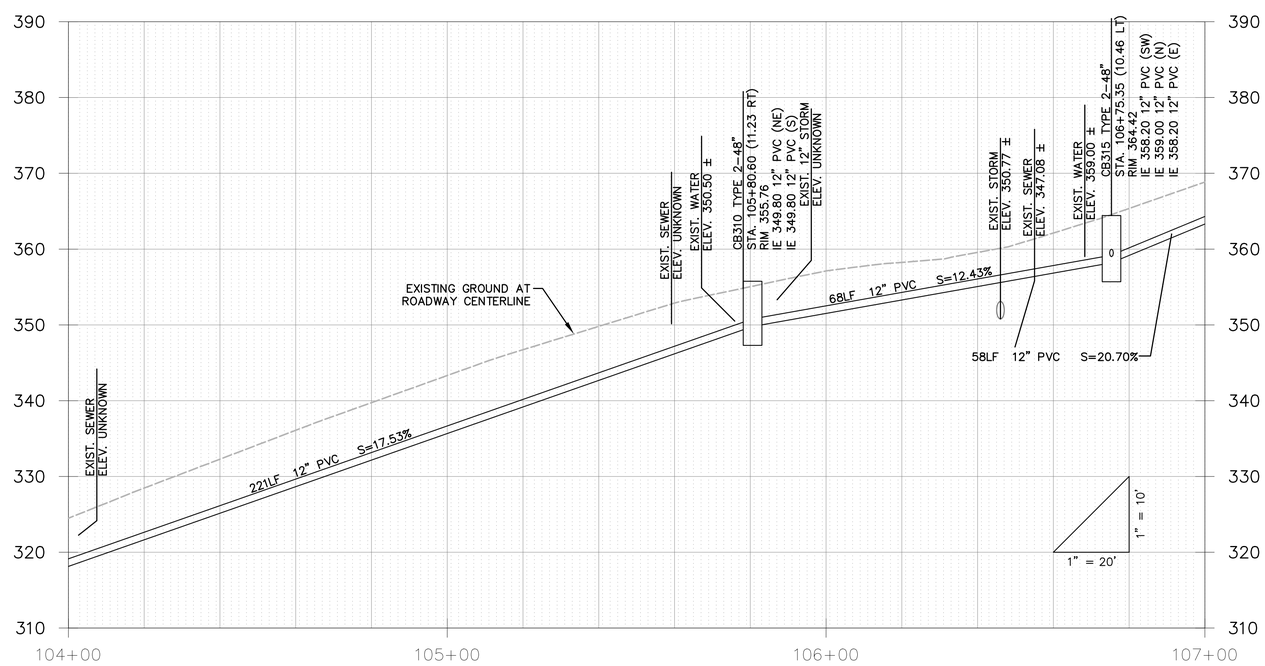

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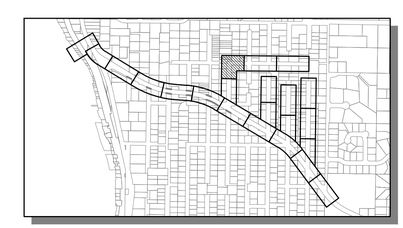

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39 SHEET OF 89

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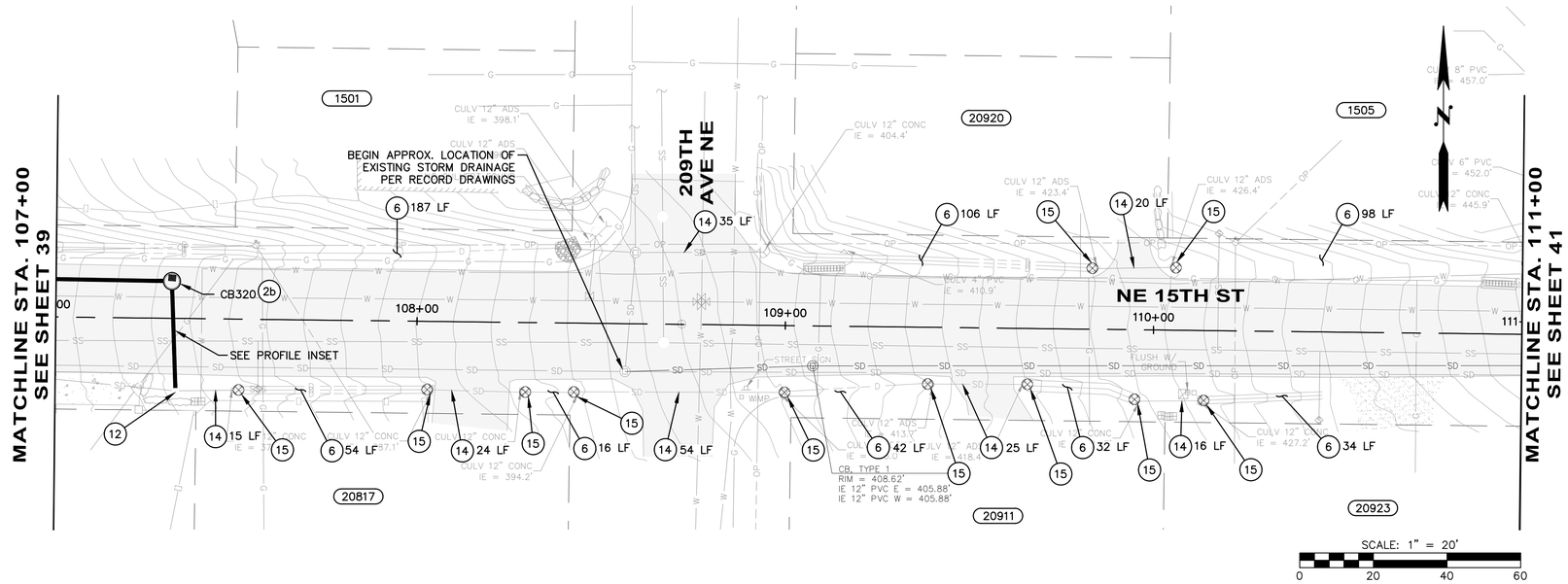

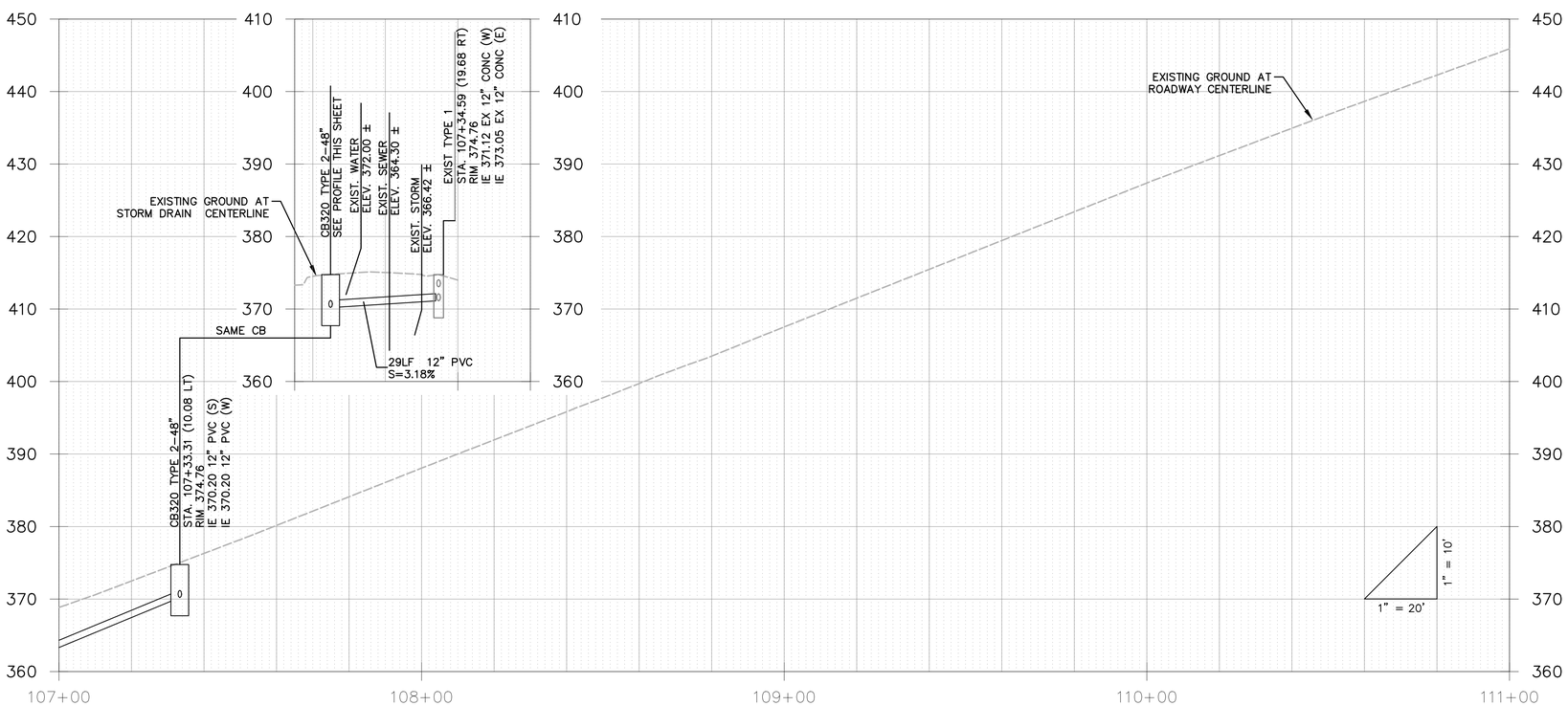

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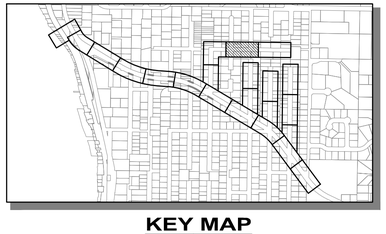

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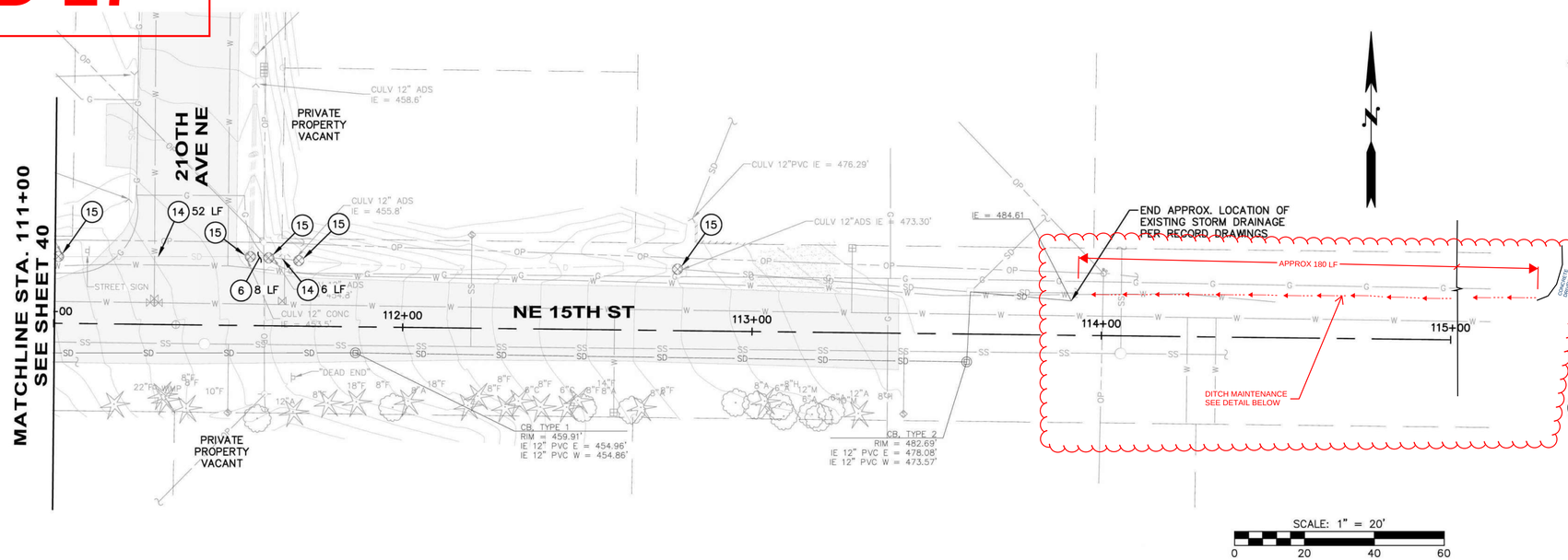
FD 17

SEC. 29 , T. 25 N., R. 6 E., W.M.



SCALE: 1" = 20'

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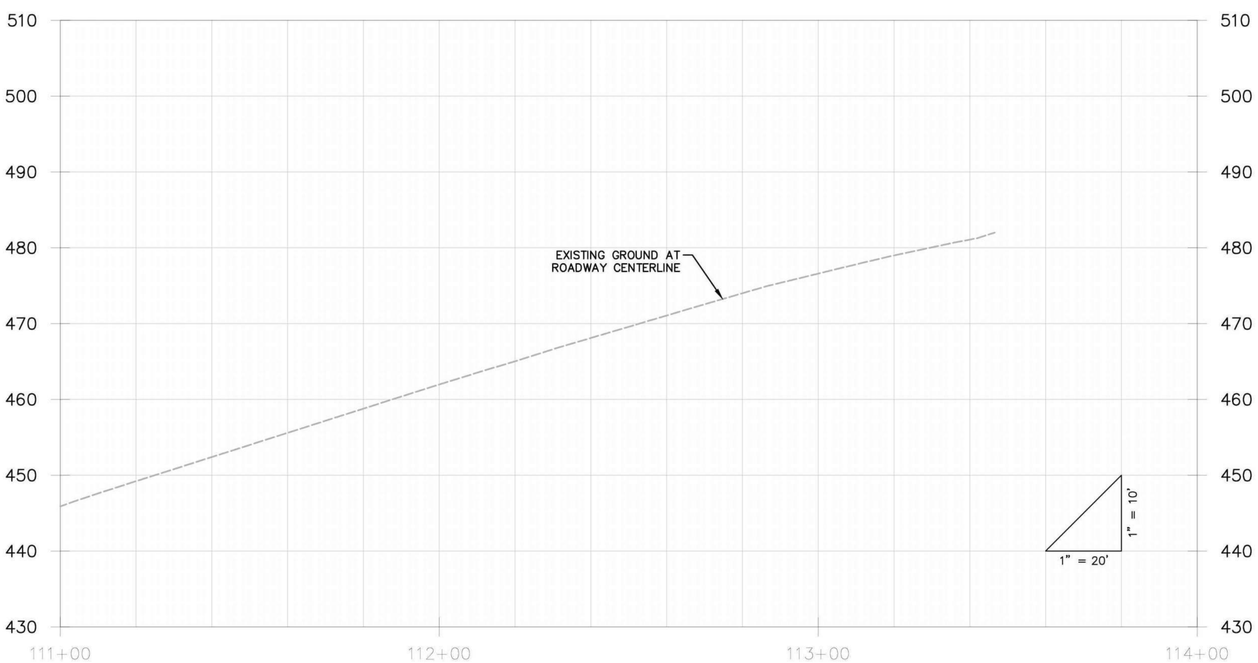

GENERAL NOTES:

1. SEE SHEET 25 FOR TYPICAL ROADWAY SECTIONS. SEE SHEET 78 FOR TRENCH RESTORATION DETAILS.
2. SEE SHEET 26 FOR CURB AND RAINGARDEN DETAILS.
3. SEE SHEETS 49 – 53 FOR CURB RETURNS AND DRIVEWAY DETAILS.
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ROADWAY NOTES:

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14. 3/8–IN PRE–MOLDED JOINT FILLER PER WSDOT STANDARD PLAN F–30.10–03.

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16. RAINGARDEN PER DETAIL SHEET 26.
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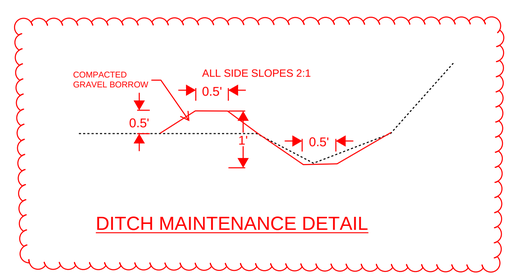
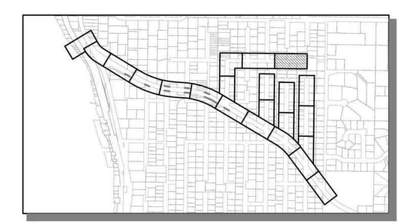


DITCH MAINTENANCE DETAIL



KEY MAP
SCALE: 1"=1000'

811
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LAURA RUPERT STATE OF WASHINGTON 43848 REGISTERED PROFESSIONAL ENGINEER
4/20/16

SCALE BARS INDICATE SCALE OF FULL-SIZE (22 X 34 INCH) DRAWINGS. FOR REDUCED SIZE DRAWINGS ADJUST SCALE ACCORDINGLY.

NO.	DATE	BY	CKD.	REVISION

City of Sammamish Washington

OSBORN CONSULTING INCORPORATED

OSBORN CONSULTING, INC.
1800 112th Ave. NE, Suite 220E Ph (425) 451–4009
Bellevue, WA. 98004 Fax (425) 451–4901

DESIGNED BY: LCR
DRAWN BY: RDH
CHECKED BY: LAT
DATE: FEB. 2016

INGLEWOOD HILL STORMWATER AND NON-MOTORIZED IMPROVEMENTS ROADWAY AND DRAINAGE STA. 111+00 TO STA. 115+00

10-140008
OCI PROJECT NO.

41 SHEET OF 89

PLOTTING DATE: 4/20/2016 USER: Travis Frankin FILE NAME: P:\10-140008 Inglewood Drainage\3 CADD\Sheets\P_10-140008_PP03.dwg

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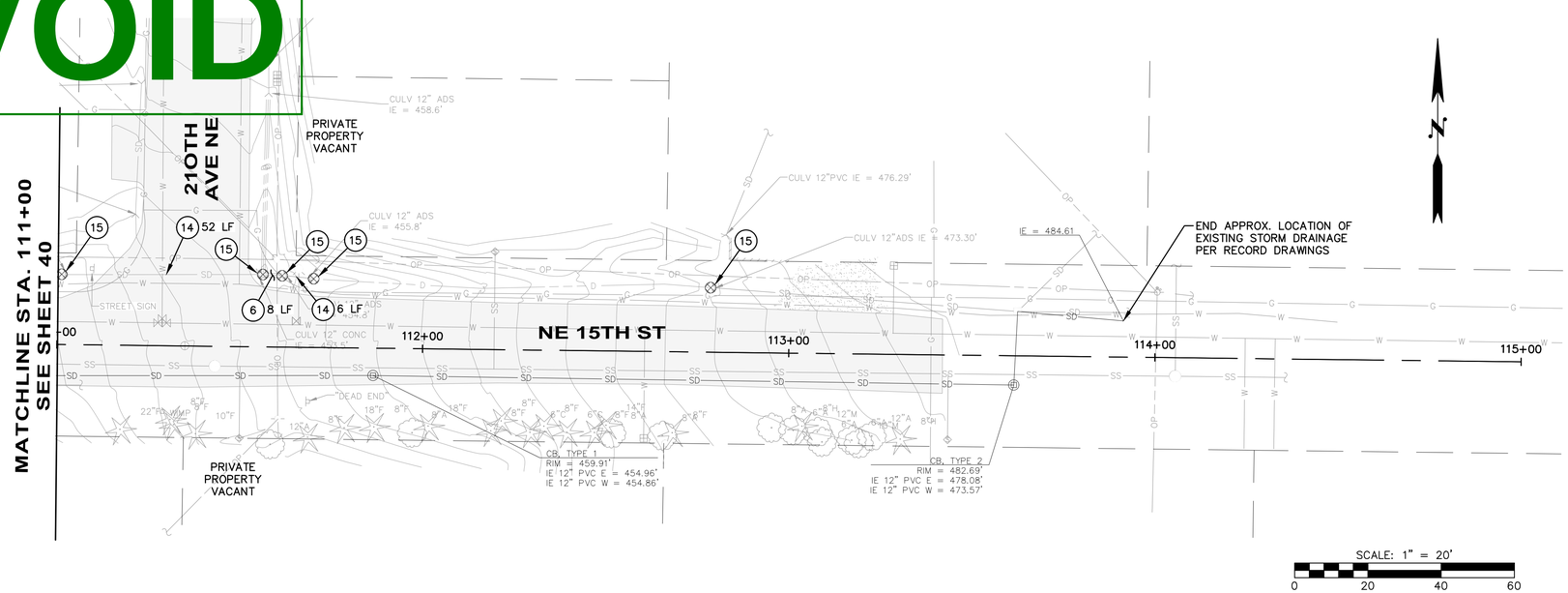

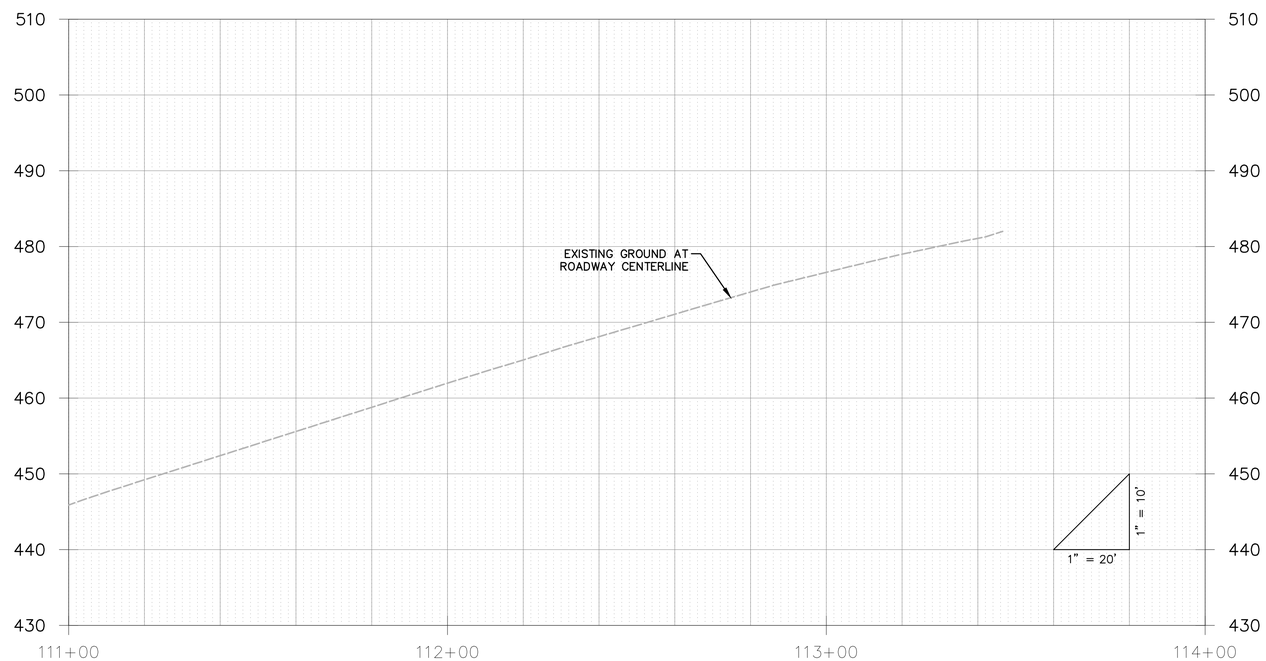

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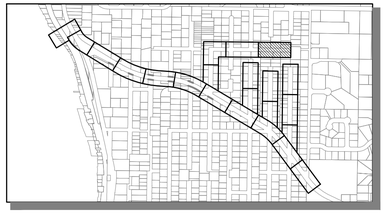

KEY MAP
SCALE: 1"=1000'

811
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STATE OF WASHINGTON
43848
REGISTERED PROFESSIONAL ENGINEER
4/20/16

SCALE BARS INDICATE SCALE OF FULL-SIZE (22 X 34 INCH) DRAWINGS. FOR REDUCED SIZE DRAWINGS ADJUST SCALE ACCORDINGLY.

NO.	DATE	BY	CKD.	REVISION

City of Sammamish Washington

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1800 112th Ave. NE, Suite 220E Ph (425) 451–4009
Bellevue, WA. 98004 Fax (425) 451–4901

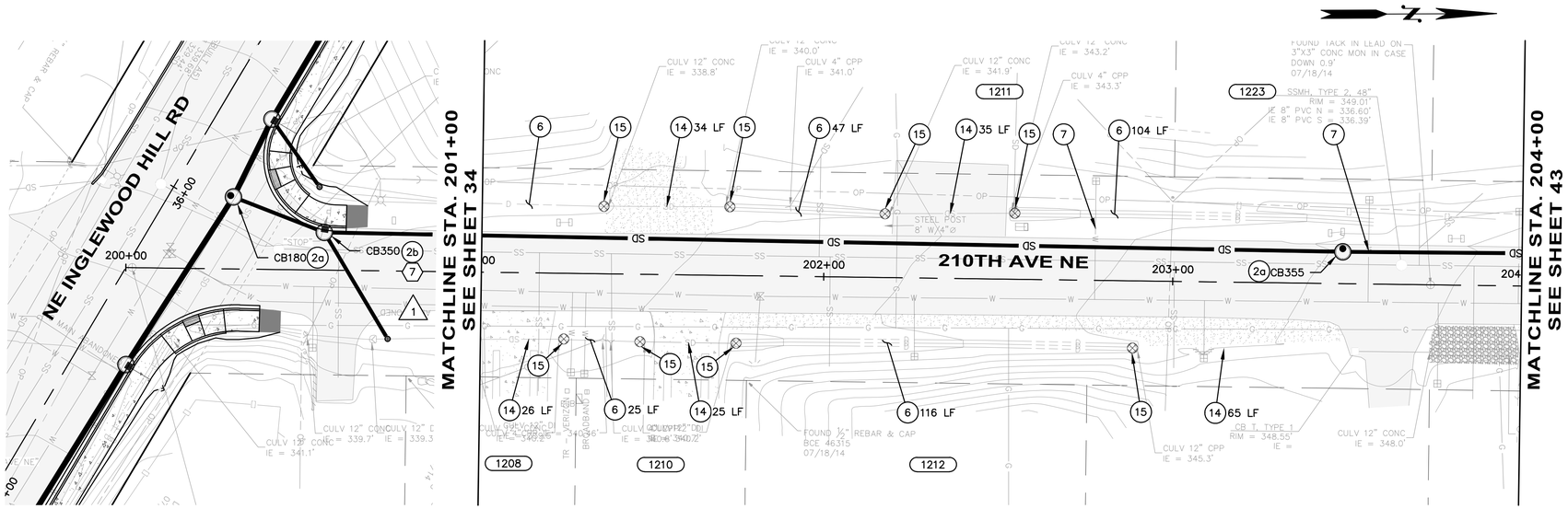
DESIGNED BY: LCR
DRAWN BY: RDH
CHECKED BY: LAT
DATE: FEB. 2016

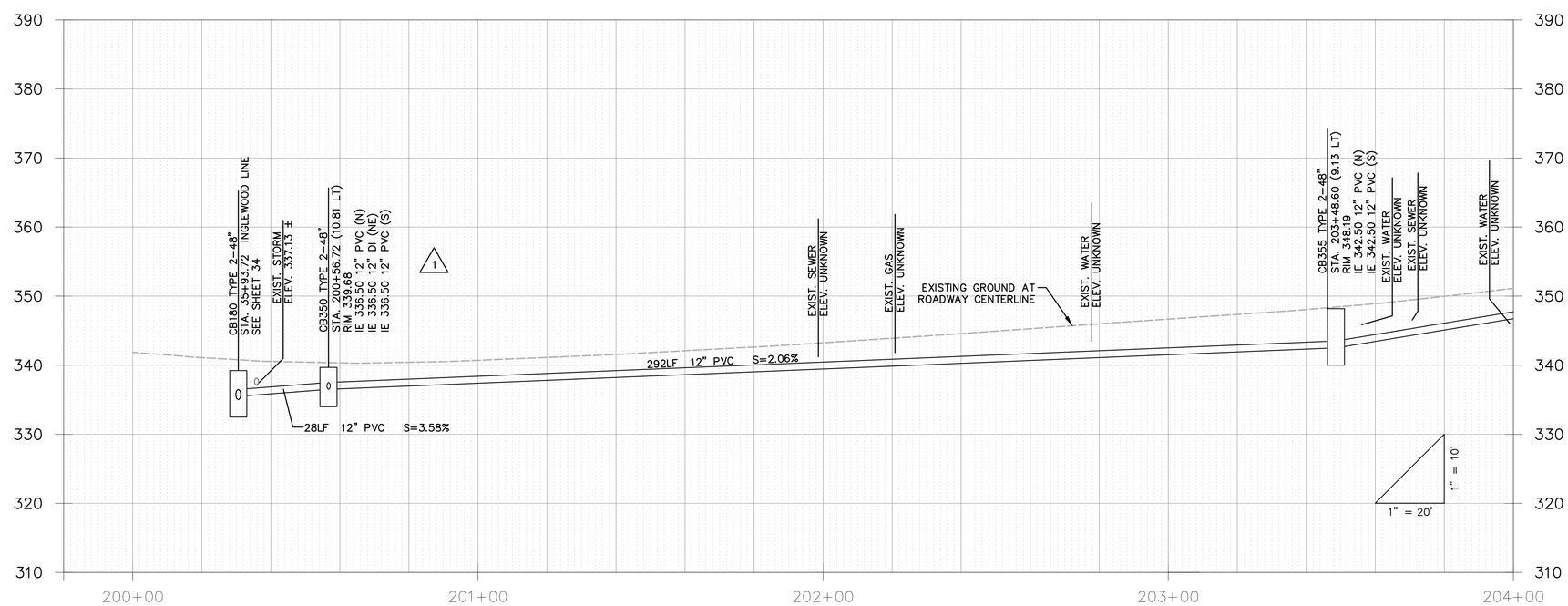
INGLEWOOD HILL STORMWATER AND NON-MOTORIZED IMPROVEMENTS
ROADWAY AND DRAINAGE
STA. 111+00 TO STA. 115+00

10-140008
OCI PROJECT NO.

PLOTTING DATE: 4/20/2016 USER: Travis Franklin FILE NAME: P:\10-140008 Inglewood Drainage\3 CADD\Sheets\P_10-140008_PP03.dwg

SEC. 29 , T. 25 N., R. 6 E., W.M.





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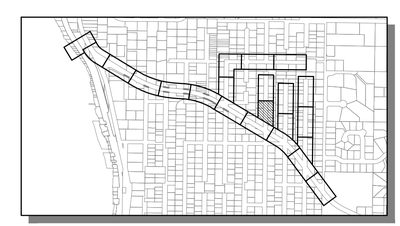

KEY MAP
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STATE OF WASHINGTON
43848
REGISTERED PROFESSIONAL ENGINEER
4/20/16

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NO.	DATE	BY	CKD.	REVISION

City of Sammamish Washington

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Bellevue, WA. 98004 Fax (425) 451–4901

DESIGNED BY: LCR
DRAWN BY: RDH
CHECKED BY: LAT
DATE: FEB. 2016

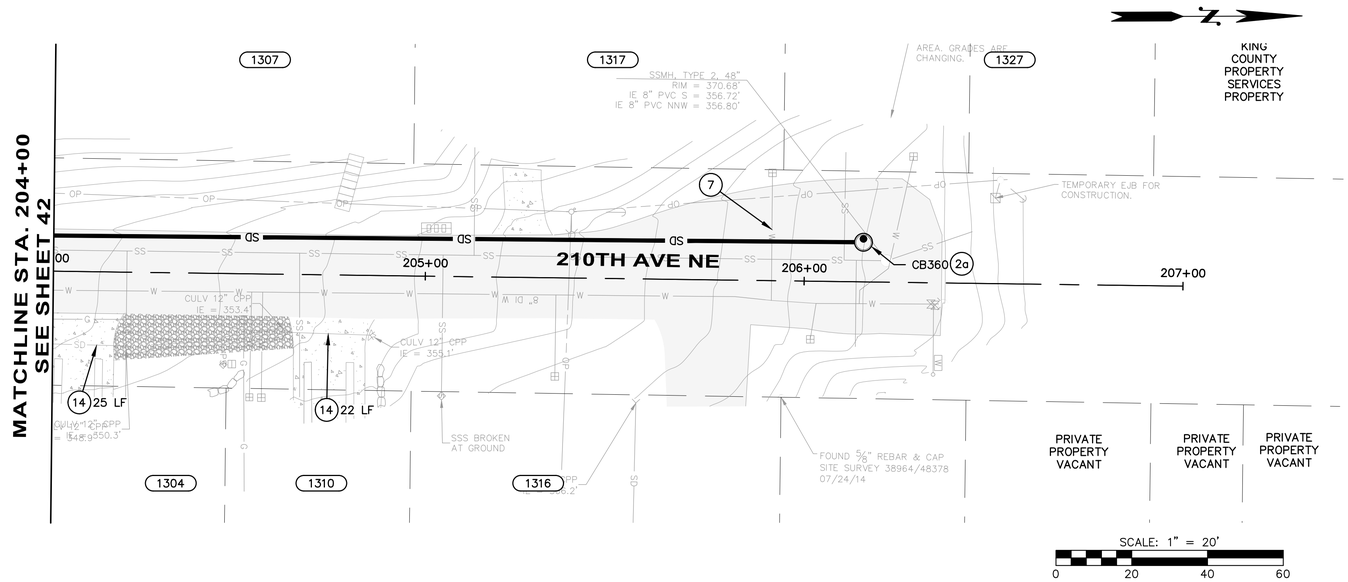
INGLEWOOD HILL STORMWATER AND NON-MOTORIZED IMPROVEMENTS
ROADWAY AND DRAINAGE
STA. 201+00 TO STA. 204+00

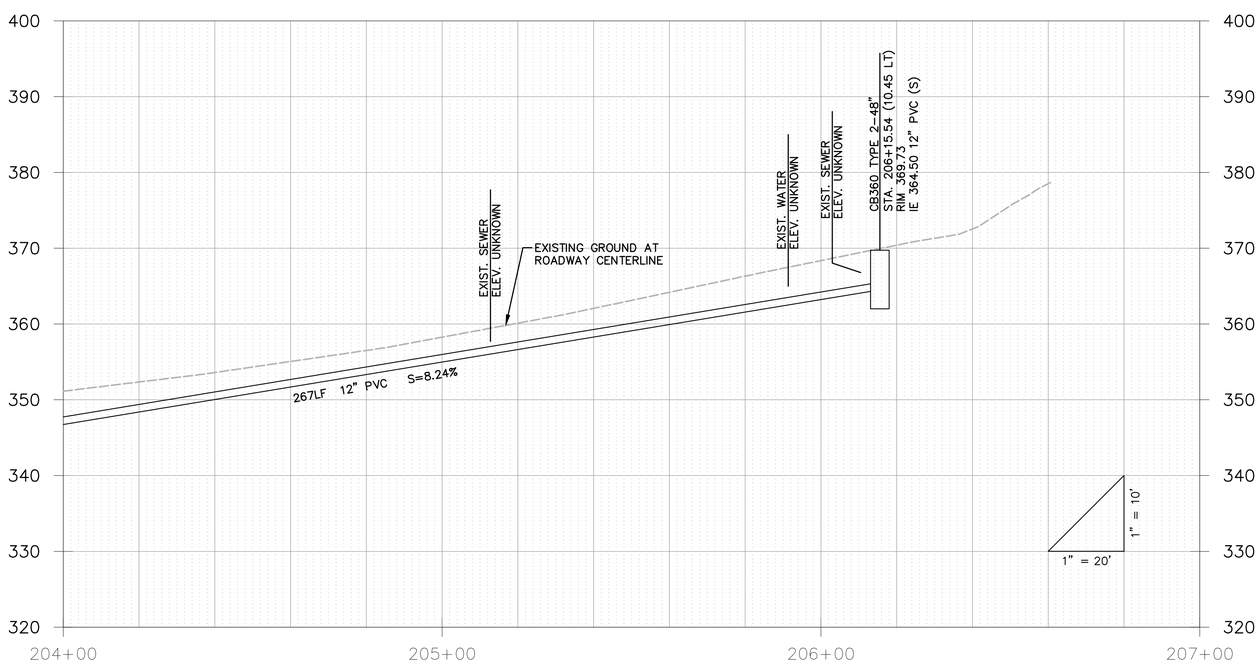
10-140008
OCI PROJECT NO.

42 SHEET OF 89

PLOTTING DATE: 4/20/2016 USER: Travis Frankl\r FILE NAME: P:\10-140008 Inglewood Drainage\3 CADD\Sheets\P_10-140008_PP03.dwg

SEC. 29 , T. 25 N., R. 6 E., W.M.





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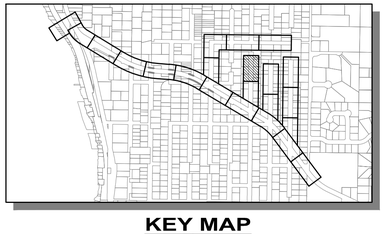

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43 SHEET OF 89

PLOTTING DATE: 4/20/2016 USER: Travis Franklin FILE NAME: P:\10-140008 Inglewood Drainage\3 CADD\Sheets\P-10-140008_PP03.dwg

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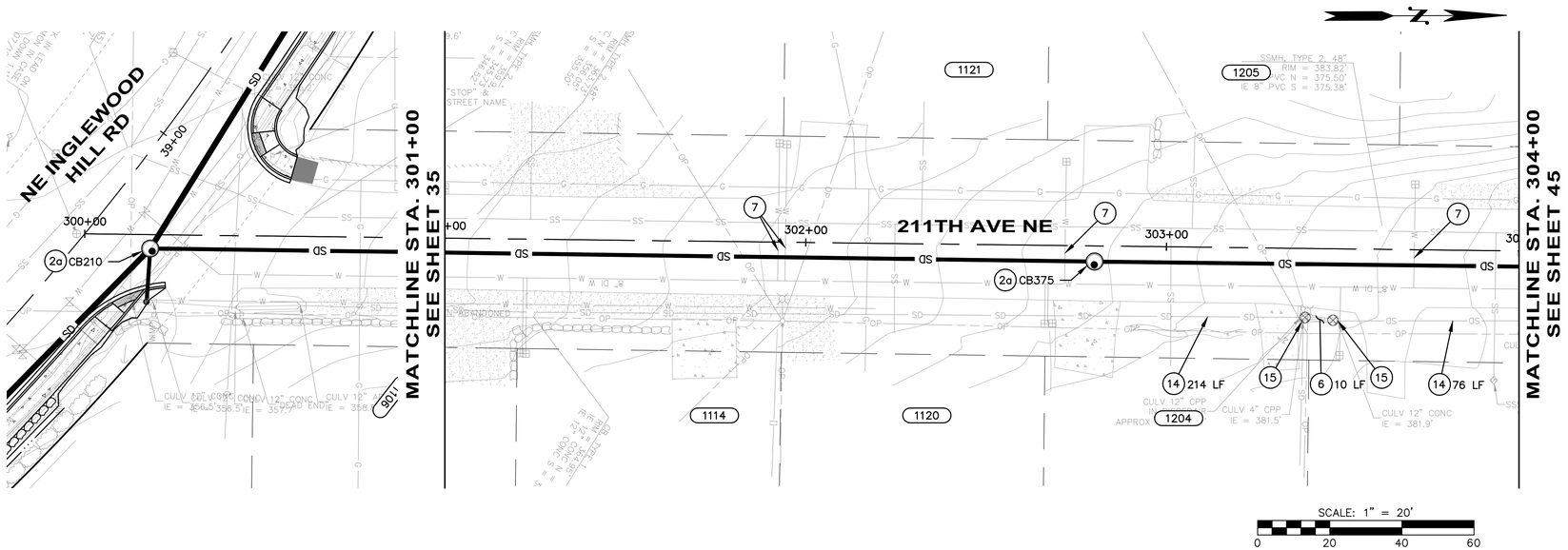

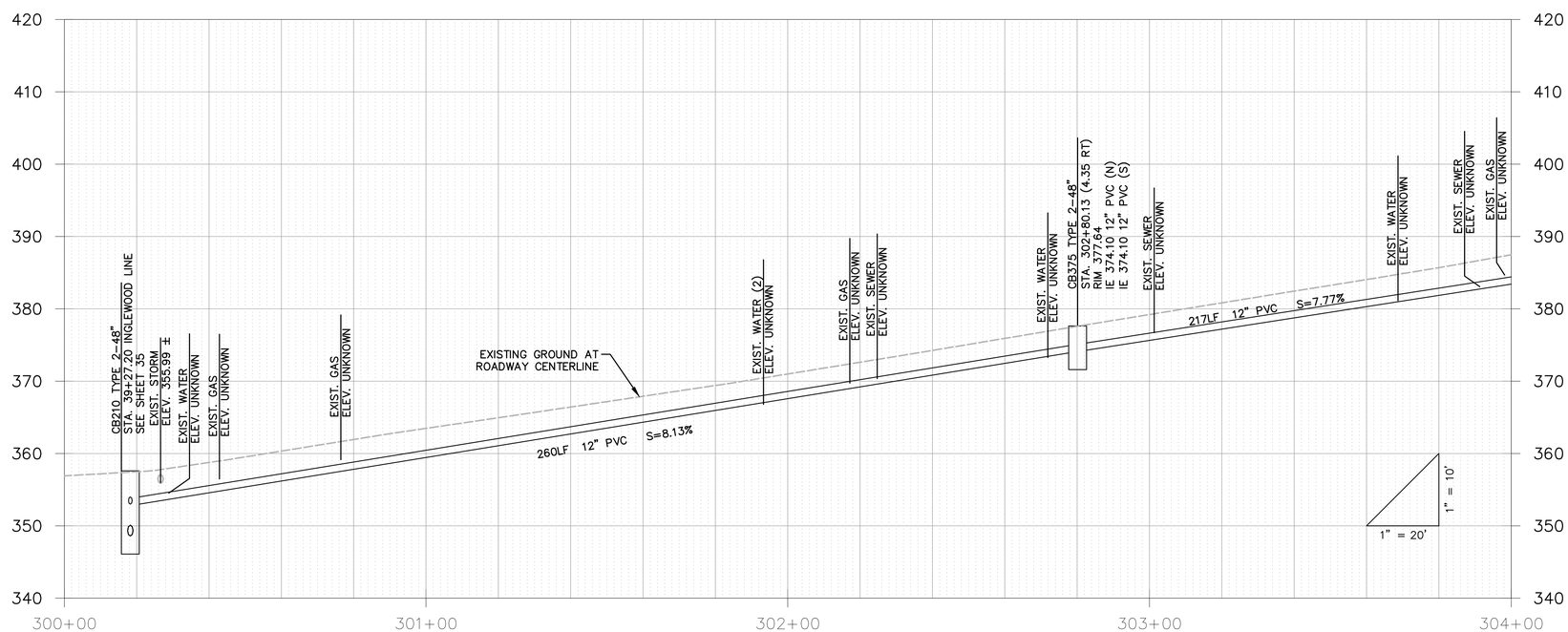

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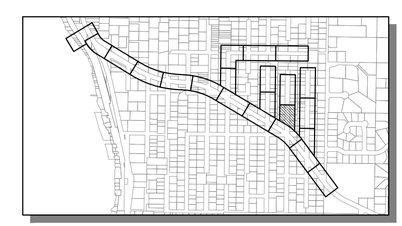

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4/20/16

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City of Sammamish Washington

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DESIGNED BY: LCR
DRAWN BY: RDH
CHECKED BY: LAT
DATE: FEB. 2016

INGLEWOOD HILL STORMWATER AND NON-MOTORIZED IMPROVEMENTS
ROADWAY AND DRAINAGE
STA. 301+00 TO STA. 304+00

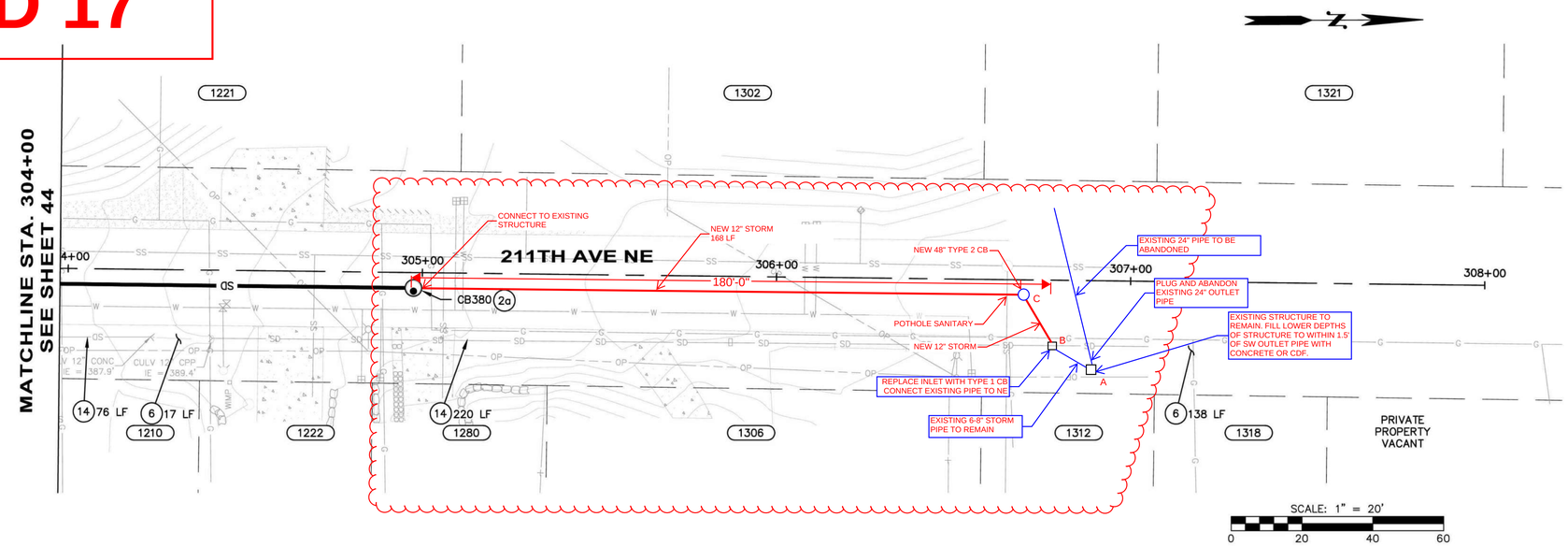
10-140008
OCI PROJECT NO.

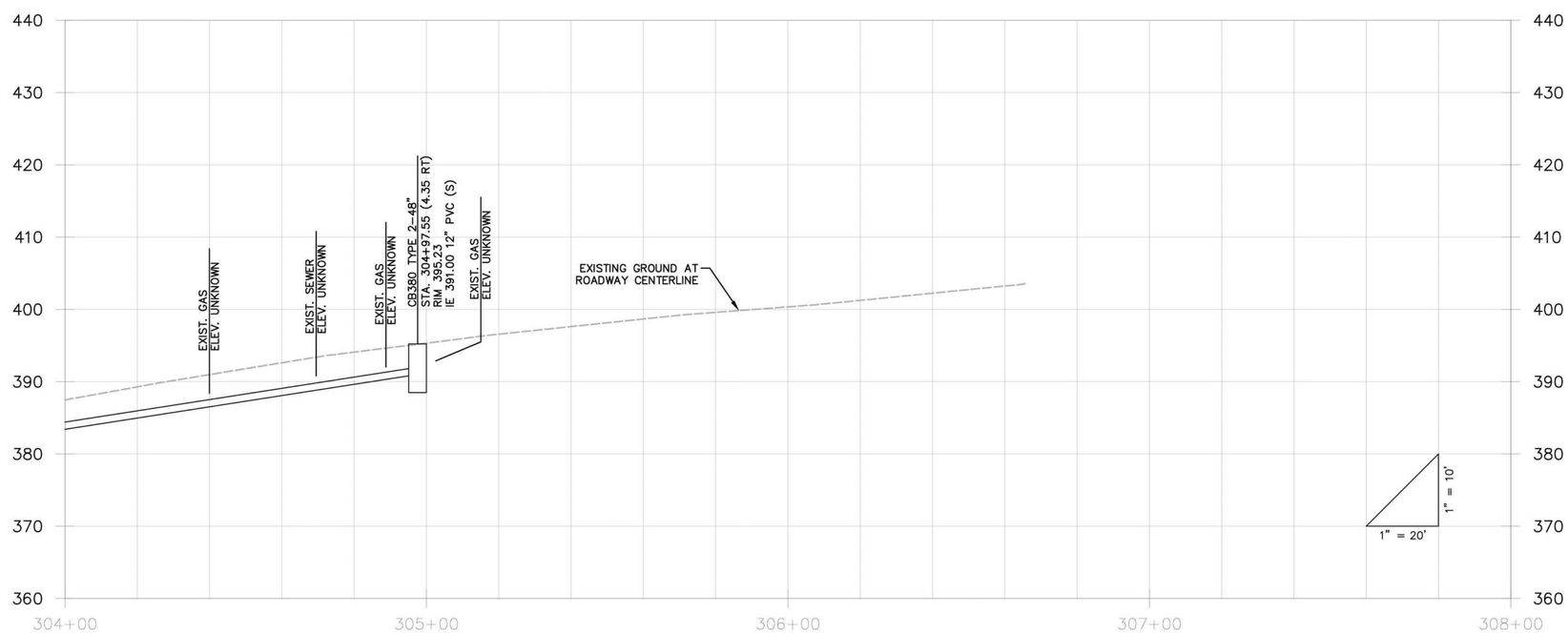
44 SHEET OF 89

PLOTTING DATE: 4/20/2016 USER: Travis Frankl FILE NAME: P:\10-140008 Inglewood Drainage\3 CADD\Sheets\P_10-140008_PP04.dwg

FD 17

SEC. 29 , T. 25 N., R. 6 E., W.M.





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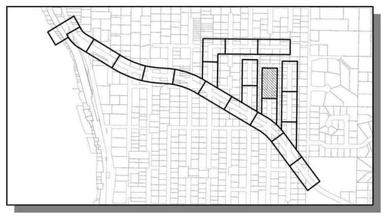

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Bellevue, WA. 98004 Fax (425) 451–4901

DESIGNED BY: LCR
DRAWN BY: RDH
CHECKED BY: LAT
DATE: FEB. 2016

INGLEWOOD HILL STORMWATER AND NON-MOTORIZED IMPROVEMENTS
ROADWAY AND DRAINAGE
STA. 304+00 TO STA. 308+00

10-140008
OCI PROJECT NO.

45 SHEET OF 89

PLOTTING DATE: 4/20/2016 USER: Travis Frankin FILE NAME: P:\10-140008 Inglewood Drainage\3 CADD\Sheets\P_10-140008_PP04.dwg

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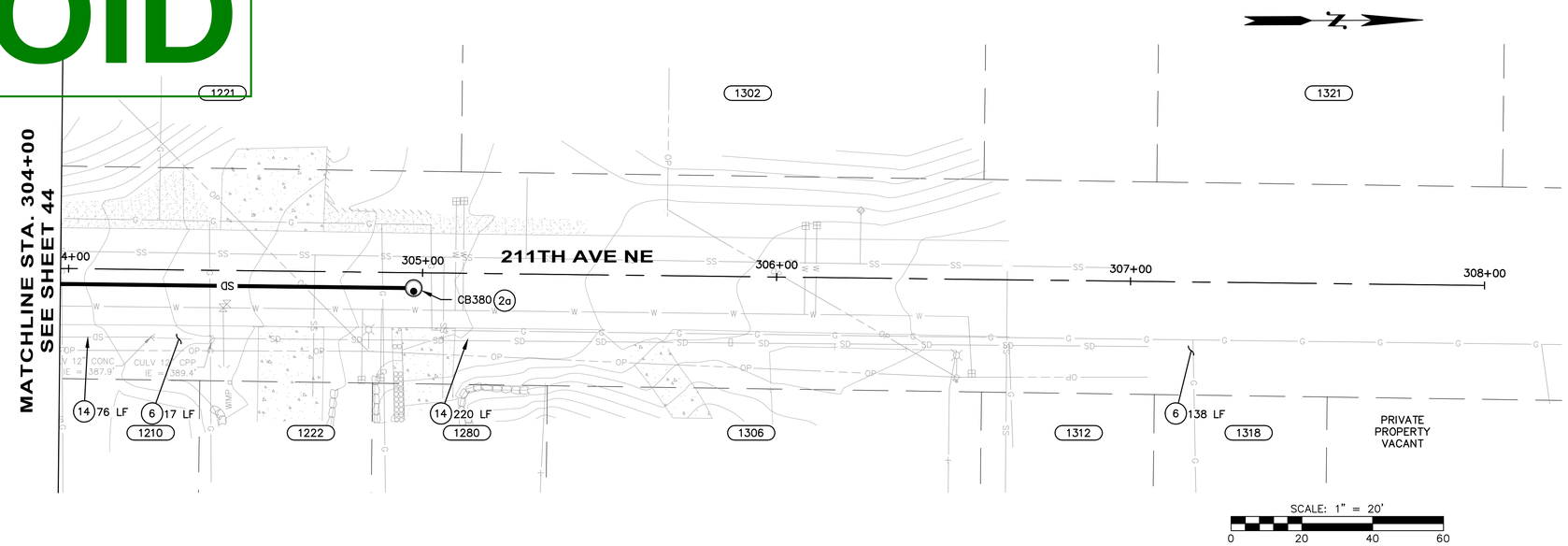

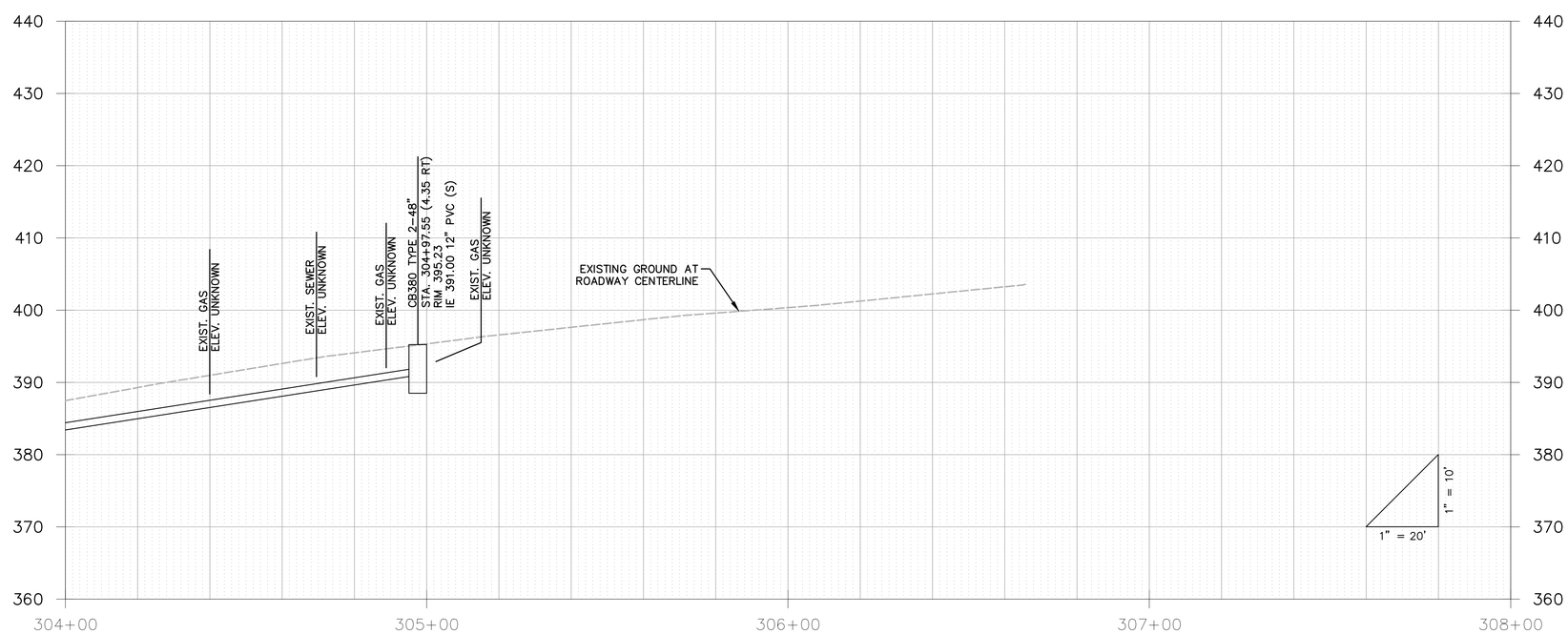

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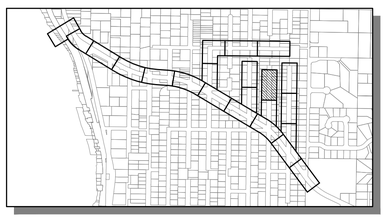

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STA. 304+00 TO STA. 308+00

10-140008
OCI PROJECT NO.

45 SHEET OF 89

PLOTTING DATE: 4/20/2016 USER: Travis Frankin FILE NAME: P:\10-140008 Inglewood Drainage\3 CADD\Sheets\P-10-140008_PP04.dwg

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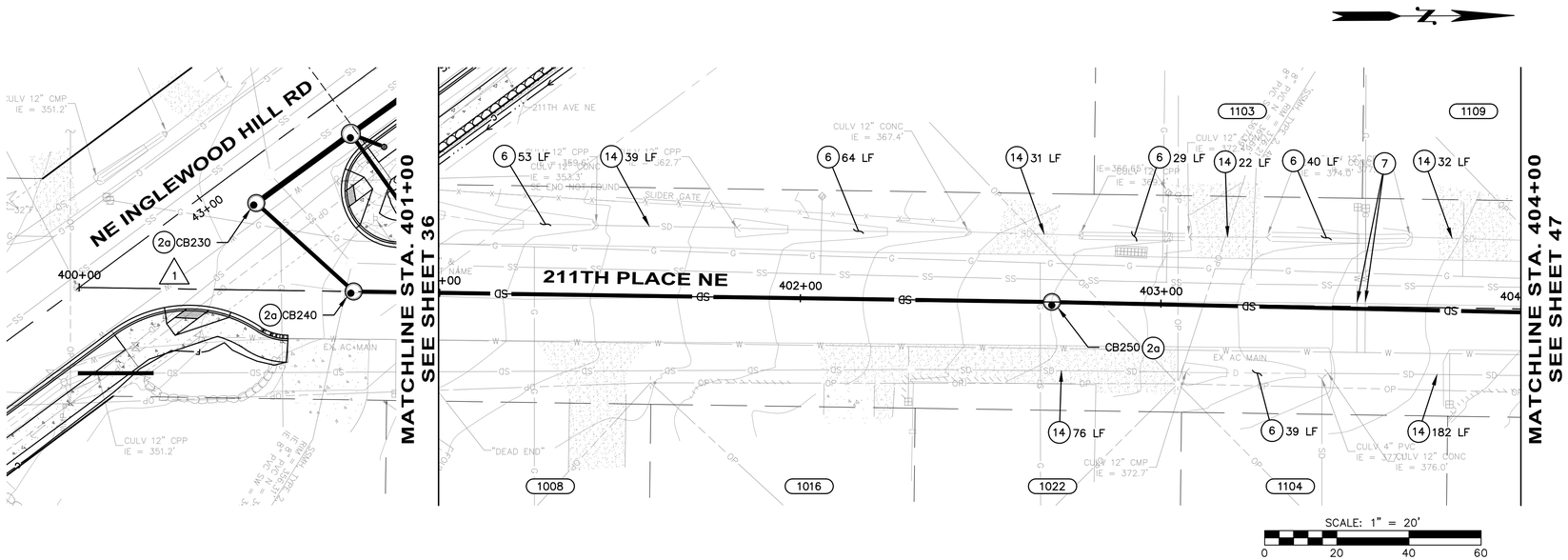

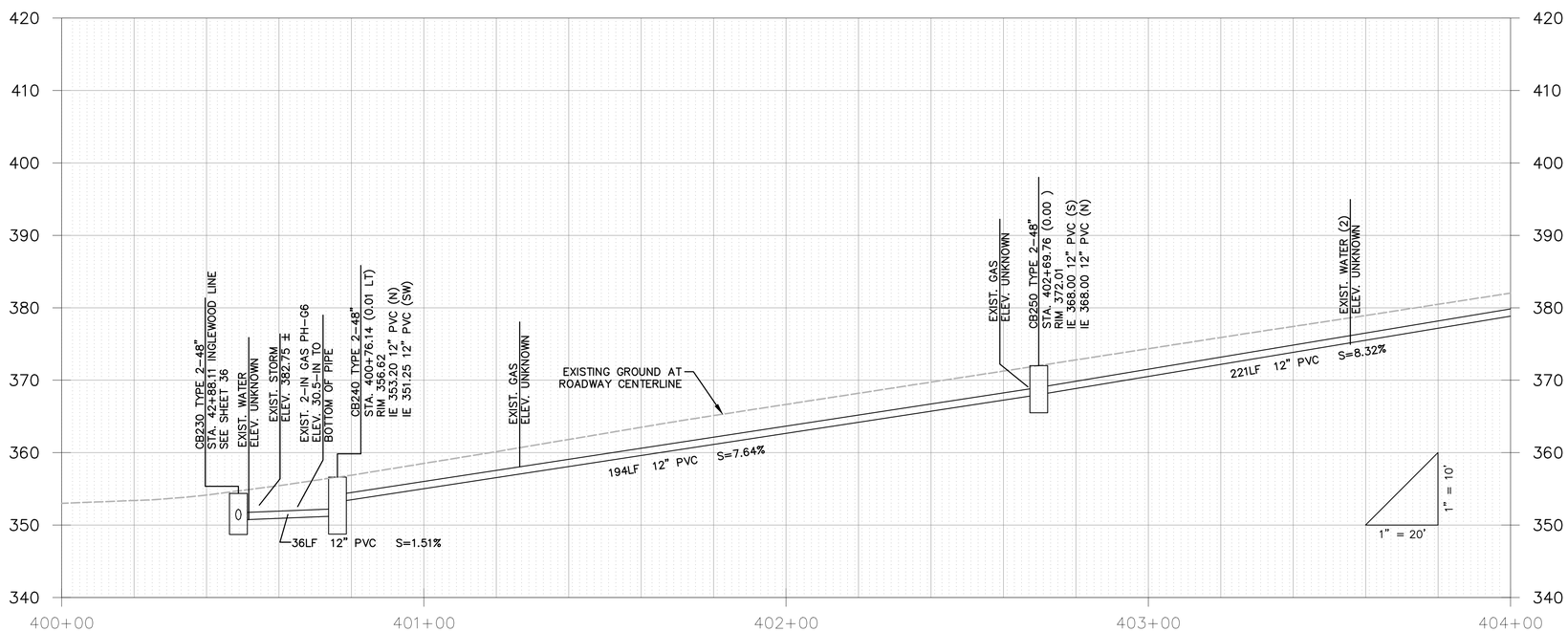

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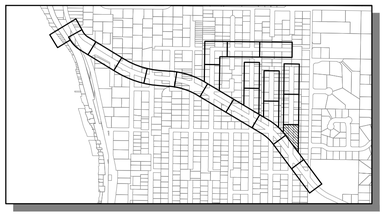

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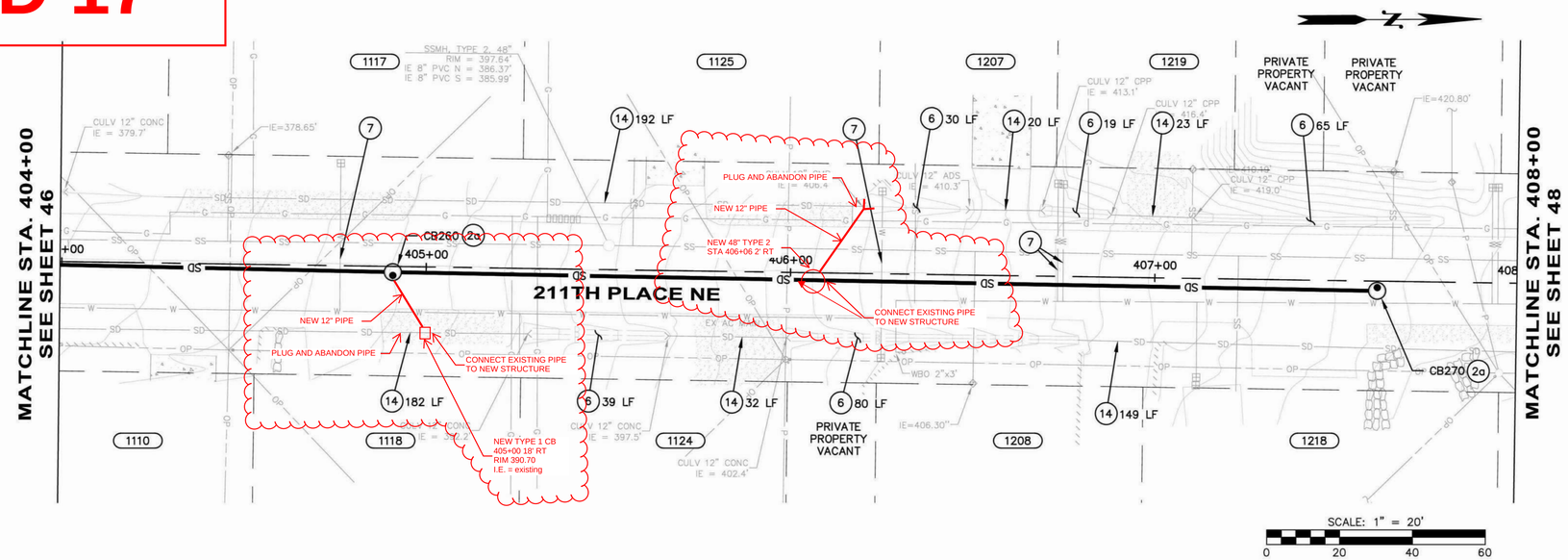

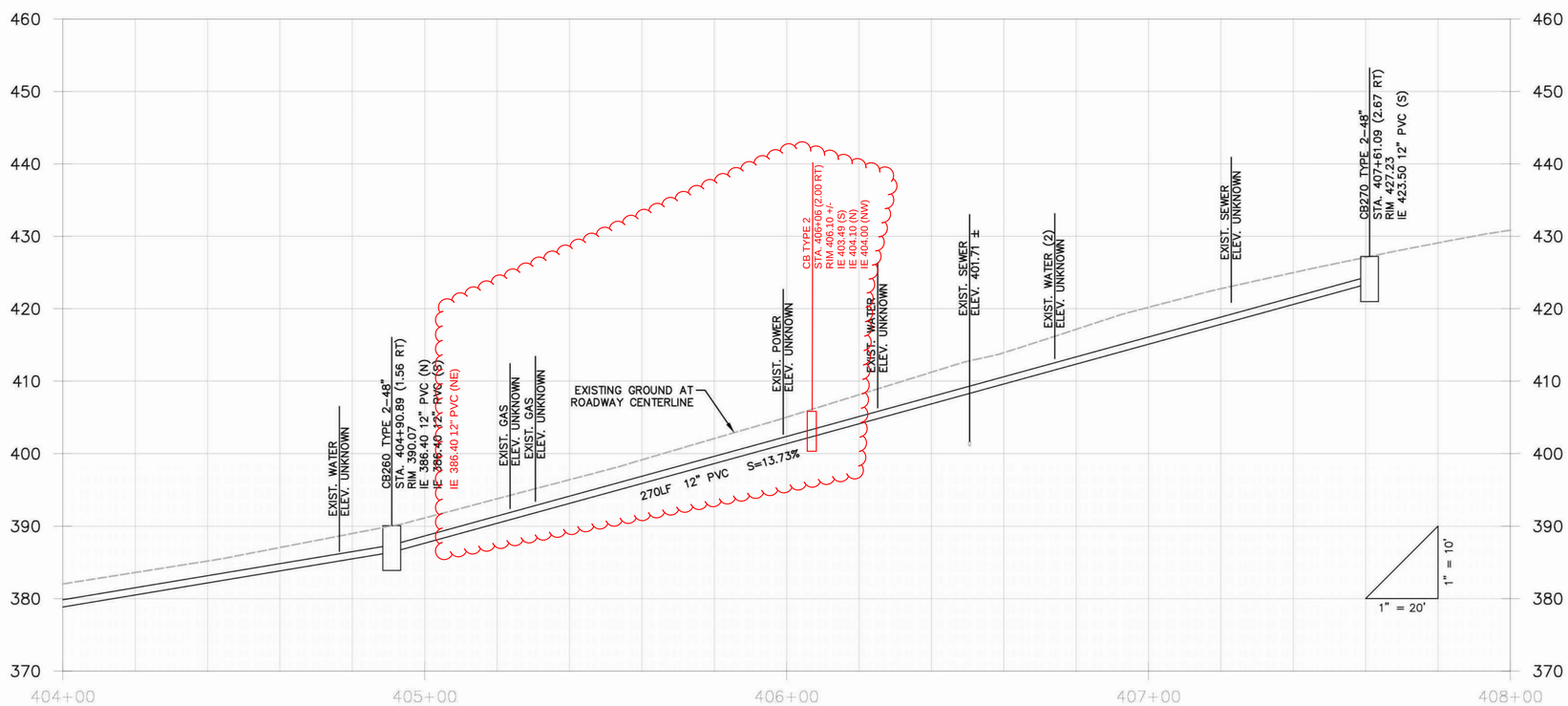

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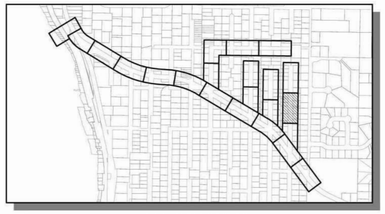
ROADWAY NOTES:

1. PERPENDICULAR CURB RAMP TYPE A PER WSDOT STANDARD PLAN F–40.15–02.
2. CEMENT CONCRETE TRAFFIC CURB AND GUTTER PER WSDOT STANDARD PLAN F–10.12–03.
3. CEMENT CONCRETE SIDEWALK PER MODIFIED WSDOT STANDARD PLAN F–30.10–03. MODIFICATIONS INCLUDE 10–FT EXPANSION JOINT SPACING AND 5–FT BROOMED FINISH SPACING.
4. RETAINING WALL, SEE SHEETS 54 – 62 FOR WALL PLAN AND PROFILES.
5. CEMENT CONCRETE DRIVEWAY ENTRANCE TYPE 1 PER WSDOT STANDARD PLAN F–80.10–03.
6. TYPE PARALLEL A CURB RAMP PER WSDOT STANDARD PLAN F–40.12–02.
7. CEMENT CONCRETE CURB AND GUTTER PAN PER WSDOT STANDARD PLAN F–10.16–00.
8. COMBINATION CURB RAMP PER WSDOT STANDARD PLAN F–40.14–02.
9. HMA TRANSITION RAMP PER DETAIL ON SHEET 26.
10. CEMENT CONCRETE NOTCHED CURB AND GUTTER PER DETAIL ON SHEET 26.
    a. curb inlet opening location per detail sheet 77.
11. TYPE PARALLEL B CURB RAMP PER WSDOT STANDARD PLAN F–40.12–02.
12. CEMENT CONCRETE TRAFFIC CURB PER WSDOT STANDARD PLAN F–10.12–03. SEE SECTION G, SHEET 25.
13. SINGLE DIRECTION CURB RAMP PER WSDOT STANDARD PLAN F–40.16–02.
14. 3/8–IN PRE–MOLDED JOINT FILLER PER WSDOT STANDARD PLAN F–30.10–03.

DRAINAGE NOTES:

1. CONCRETE INLET PER WSDOT STANDARD PLAN B–25.60–00.
2. CATCH BASIN TYPE 2 PER WSDOT STANDARD PLAN B–10.20–01
   a. Circular Frame (Ring) and Cover per WSDOT Standard Plan B–30.70–03 with solid locking lid.
   b. Rectangular Vaned Grate per WSDOT Standard Plans B–30.30–01 and B–30.10–01.
3. MODULAR WETLAND SYSTEM PER DETAIL SHEETS 63 – 69, AND 77.
4. EXTEND EXISTING CULVERT PER DETAIL SHEET 77.
5. SAND FILTER VAULT SYSTEM PER DETAILS ON SHEETS 72 – 76.
6. DITCH MAINTENANCE PER SPECIFICATION 2–03.
7. FIELD ADJUST EXISTING FLEXIBLE WATER SERVICE LINE AS NEEDED.
8. 12 IN. DIAM. NYLOPLAST–ADS DRAIN BASIN WITH DOME GRATE PER DETAIL ON SHEET 70 AND 77. FIELD FIT AT LOCALIZED LOW POINT WITHIN 5–FT RADIUS OF THE LOCATION SHOWN ON PLAN.
9. CATCH BASIN TYPE 2 FLOW SPLITTER WITH SOLID LID PER DETAIL 1 SHEET 79.
10. PIPE ANCHOR PER DETAIL SHEET 78.
11. RECTANGULAR VANED GRATE PER WSDOT STANDARD PLAN B–30.30–01.
12. CONNECTION TO DRAINAGE STRUCTURE PER WSDOT STANDARD SPECIFICATION 7–05.3(3).
13. CDS PRE–TREATMENT UNIT PER DETAIL SHEET 71.
14. CLEAN EXISTING CULVERT PER WSDOT STANDARD SPECIFICATION 7–07.
15. CULVERT END PROTECTION, 2–IN TO 4–IN ROCKS PER SPECIFICATION 8–15.
16. RAINGARDEN PER DETAIL SHEET 26.
17. INSTALL EXISTING CB FLOW SPLITTER PER DETAIL 2, SHEET 79.
18. GRASS–LINED V–DITCH PER DETAIL SHEET 78.



KEY MAP
SCALE: 1"=1000'

811 Know what's below. Call before you dig.

LARRY R. PAPPAST STATE OF WASHINGTON 43848 REGISTERED PROFESSIONAL ENGINEER
4/20/16

SCALE BARS INDICATE SCALE OF FULL-SIZE (22 X 34 INCH) DRAWINGS. FOR REDUCED SIZE DRAWINGS ADJUST SCALE ACCORDINGLY.

NO.	DATE	BY	CKD.	REVISION

City of Sammamish Washington

OSBORN CONSULTING INCORPORATED
OSBORN CONSULTING, INC.
1800 112th Ave. NE, Suite 220E Ph (425) 451–4009
Bellevue, WA. 98004 Fax (425) 451–4901

DESIGNED BY: LCR
DRAWN BY: RDH
CHECKED BY: LAT
DATE: FEB. 2016

INGLEWOOD HILL STORMWATER AND NON-MOTORIZED IMPROVEMENTS
ROADWAY AND DRAINAGE
STA. 404+00 TO STA. 408+00

10-140008
OCI PROJECT NO.

47 SHEET OF 89

PLOTTING DATE: 4/20/2016 USER: Travis Frank FILE NAME: P:\10-140008 Inglewood Drainage\3 CADD\Sheets\P_10-140008_PP04.dwg

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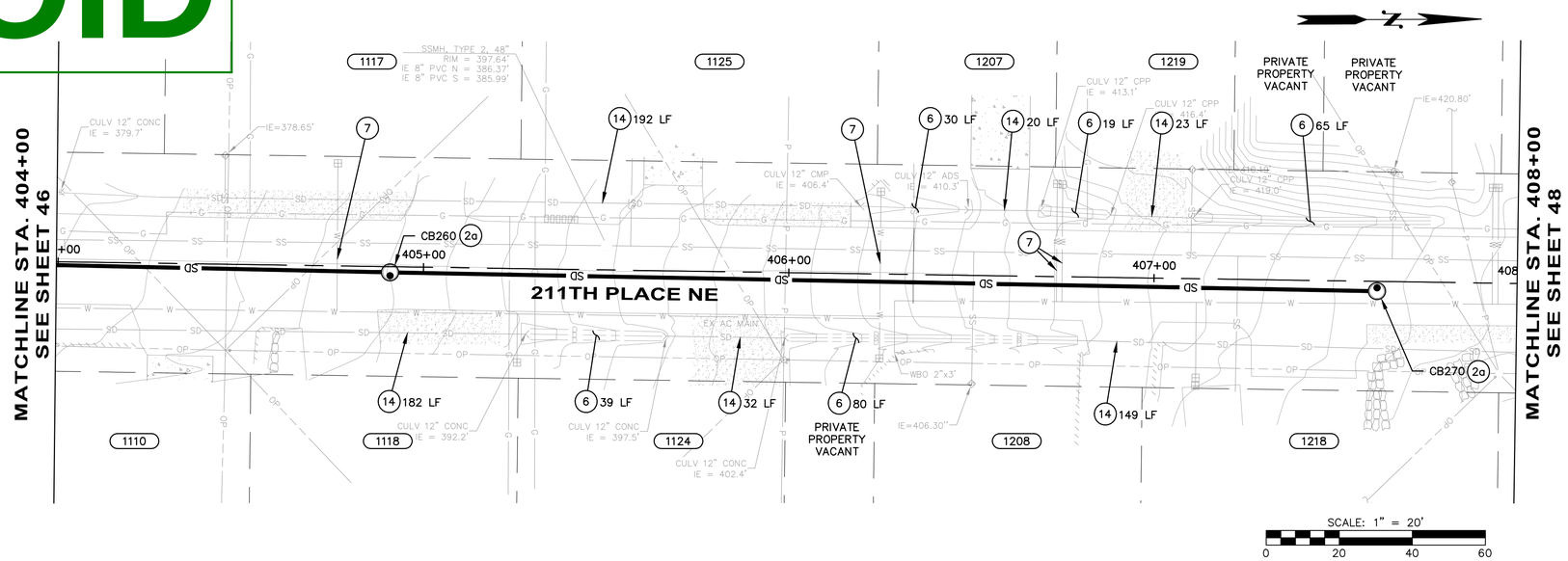
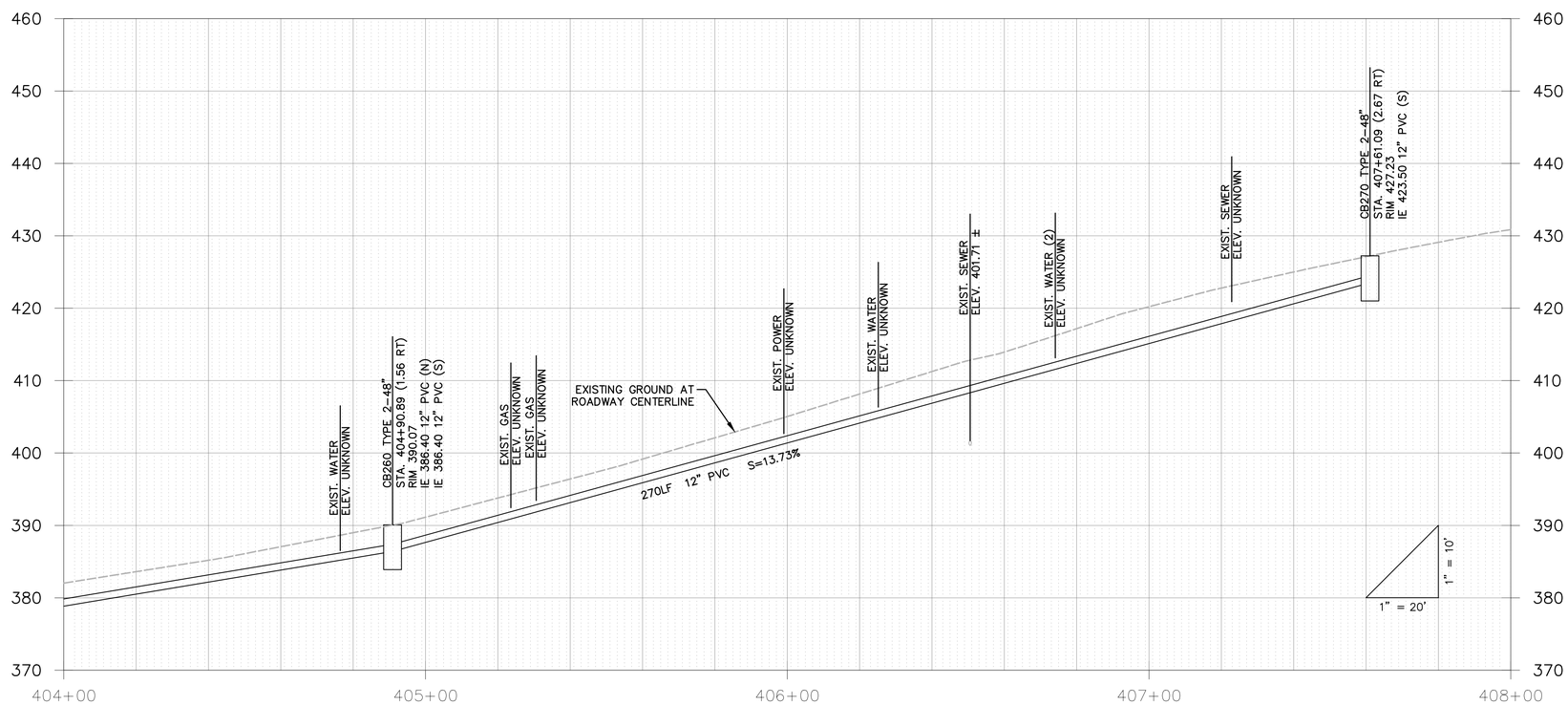
SEC. 29 , T. 25 N., R. 6 E., W.M.





GENERAL NOTES:

1. SEE SHEET 25 FOR TYPICAL ROADWAY SECTIONS. SEE SHEET 78 FOR TRENCH RESTORATION DETAILS.
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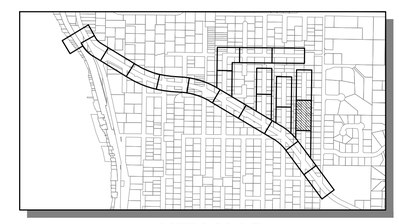

KEY MAP
SCALE: 1"=1000'

811
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LARA RUFFNER
STATE OF WASHINGTON
43848
REGISTERED PROFESSIONAL ENGINEER
4/20/16

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NO.	DATE	BY	CKD.	REVISION

City of Sammamish Washington

OSBORN CONSULTING INCORPORATED
OSBORN CONSULTING, INC.
1800 112th Ave. NE, Suite 220E Ph (425) 451–4009
Bellevue, WA. 98004 Fax (425) 451–4901

DESIGNED BY: LCR
DRAWN BY: RDH
CHECKED BY: LAT
DATE: FEB. 2016

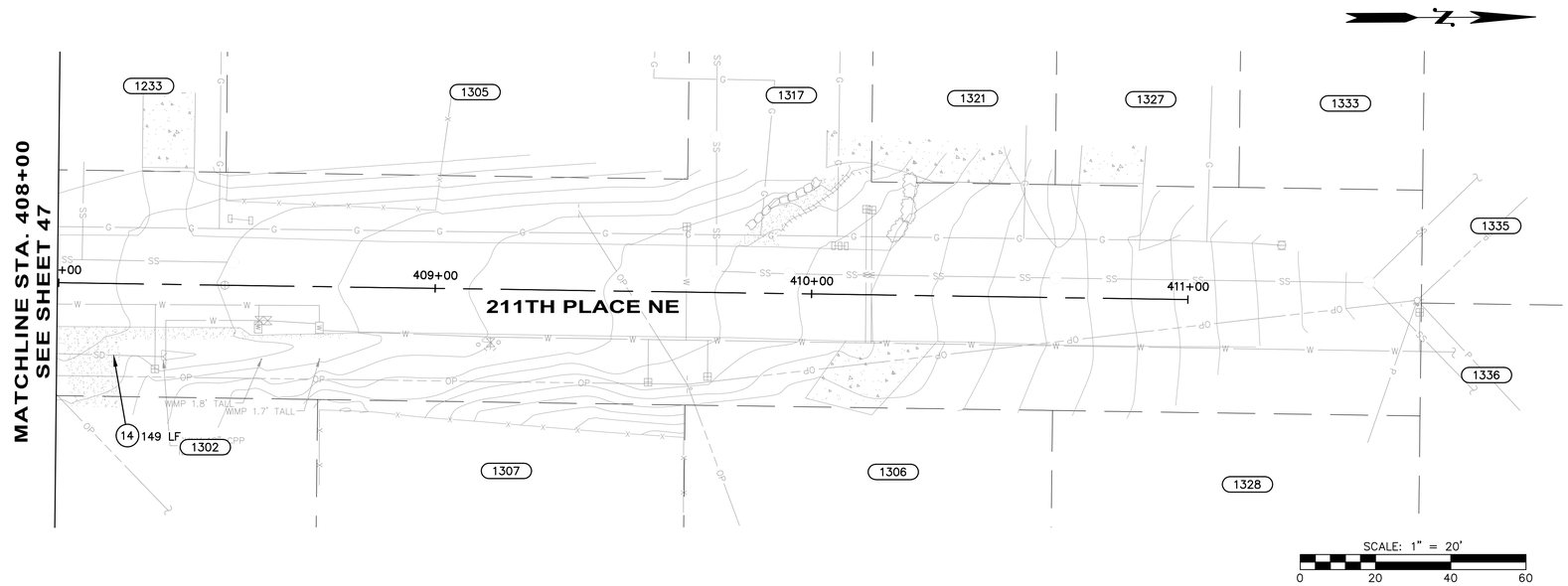
INGLEWOOD HILL STORMWATER AND NON-MOTORIZED IMPROVEMENTS
ROADWAY AND DRAINAGE
STA. 404+00 TO STA. 408+00

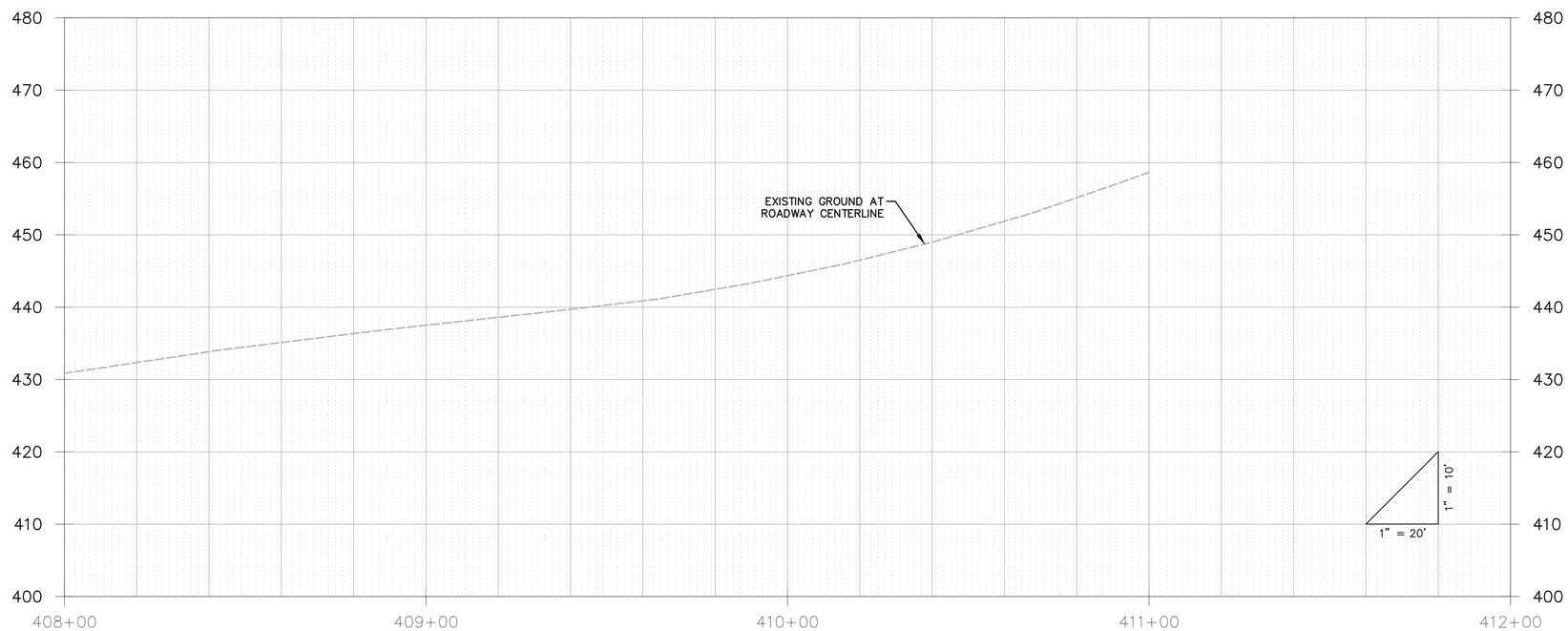
10-140008
OCI PROJECT NO.

47 SHEET OF 89

PLOTTING DATE: 4/20/2016 USER: Travis Frankl FILE NAME: P:\10-140008 Inglewood Drainage\3 CADD\Sheets\P_10-140008_PP04.dwg

SEC. 29 , T. 25 N., R. 6 E., W.M.





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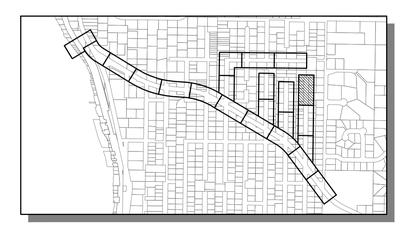

KEY MAP
SCALE: 1"=1000'

811
Know what's below.
Call before you dig.

LAURA RUPPERT
STATE OF WASHINGTON
43848
REGISTERED
PROFESSIONAL ENGINEER
4/20/16

SCALE BARS INDICATE SCALE OF FULL-SIZE (22 X 34 INCH) DRAWINGS. FOR REDUCED SIZE DRAWINGS ADJUST SCALE ACCORDINGLY.

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Bellevue, WA. 98004 Fax (425) 451–4901

DESIGNED BY: LCR
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DATE: FEB. 2016

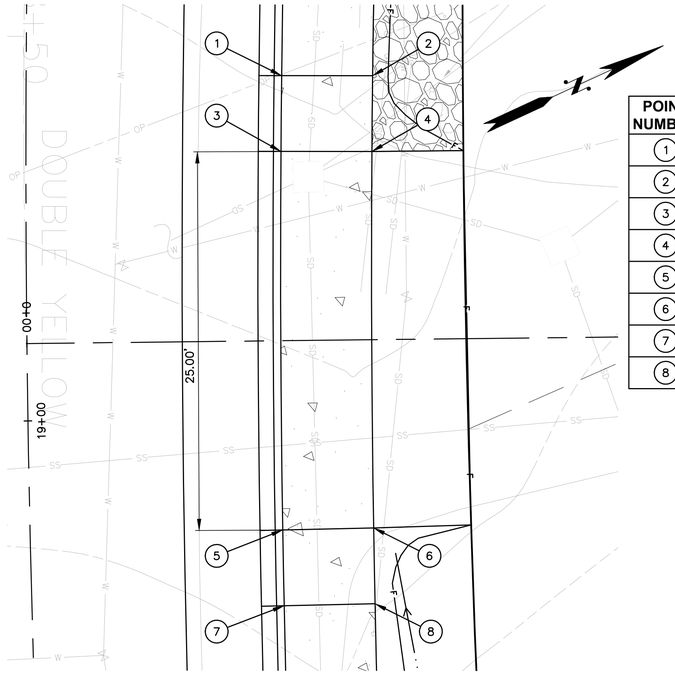
INGLEWOOD HILL STORMWATER AND NON-MOTORIZED IMPROVEMENTS
ROADWAY AND DRAINAGE
STA. 408+00 TO STA. 411+00

10-140008
OCI PROJECT NO.

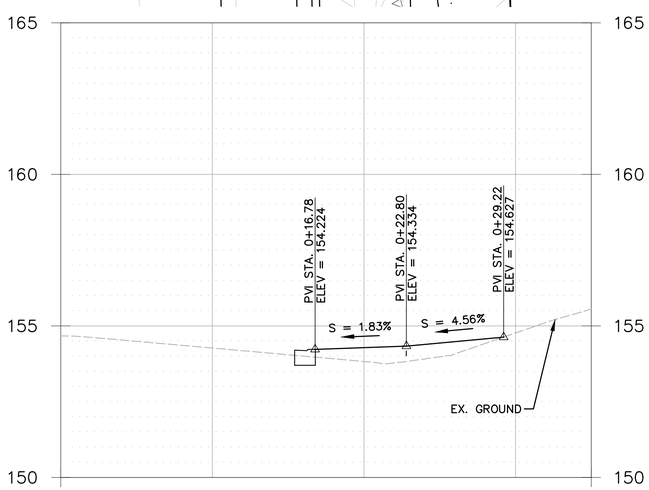
48 SHEET OF 89

PLOTTING DATE: 4/20/2016 USER: Travis Frankl FILE NAME: P:\10-140008 Inglewood Drainage\3 CADD\Sheets\P_10-140008_PP04.dwg

SEC. 20 , T. 25 N., R. 06 E., W.M.

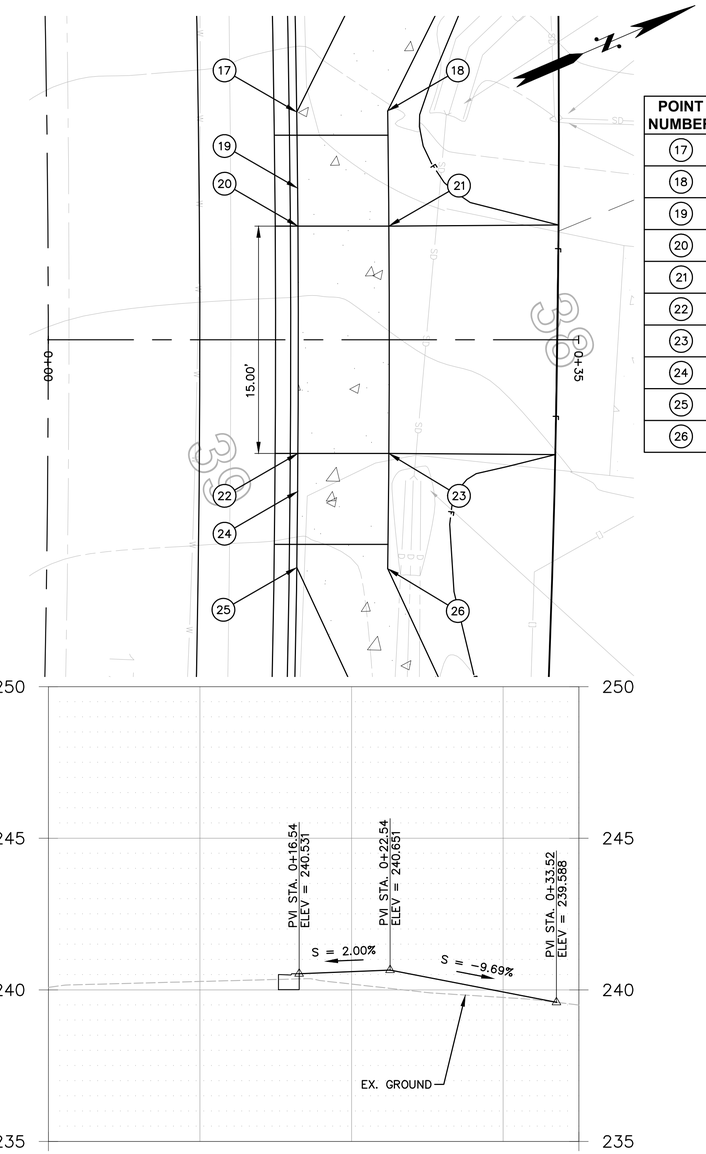


POINT NUMBER	FINISHED GRADE
1	152.40
2	152.51
3	152.59
4	152.71
5	155.30
6	155.41
7	156.24
8	156.36



1/30 **DRIVEWAY DETAIL 18+94.90**
N.T.S.

2/31 **NOT USED**
N.T.S.



POINT NUMBER	FINISHED GRADE
17	238.63
18	238.75
19	239.08
20	239.40
21	239.52
22	241.29
23	241.41
24	241.61
25	242.41
26	242.53

3/32 **DRIVEWAY DETAIL 27+48.46**
N.T.S.

SCALE: 1" = 5'
0 5 10 15

811
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REGISTERED PROFESSIONAL ENGINEER
4/20/16

SCALE BARS INDICATE SCALE OF FULL-SIZE (22 X 34 INCH) DRAWINGS. FOR REDUCED SIZE DRAWINGS ADJUST SCALE ACCORDINGLY.

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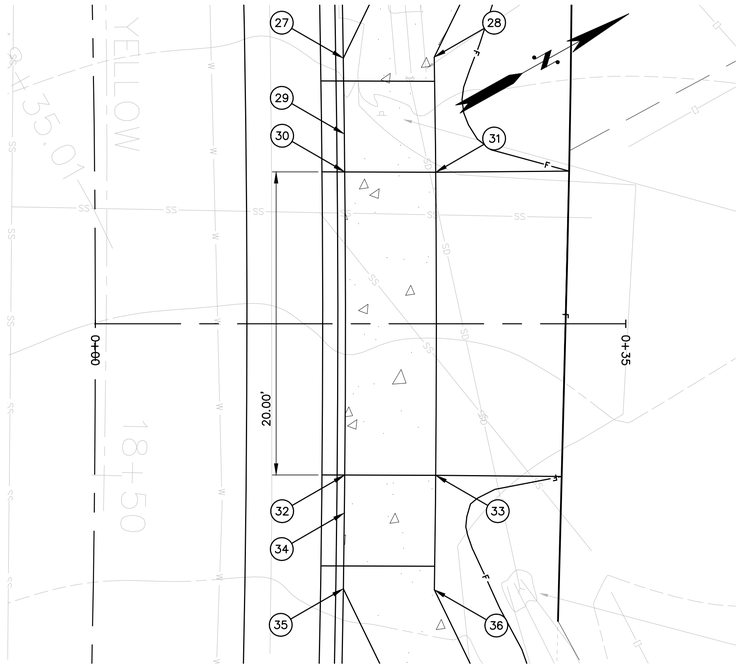
INGLEWOOD HILL STORMWATER AND NON-MOTORIZED IMPROVEMENTS
ROADWAY DETAILS
DRIVEWAY PLAN AND PROFILE

10-140008
OCI PROJECT NO.

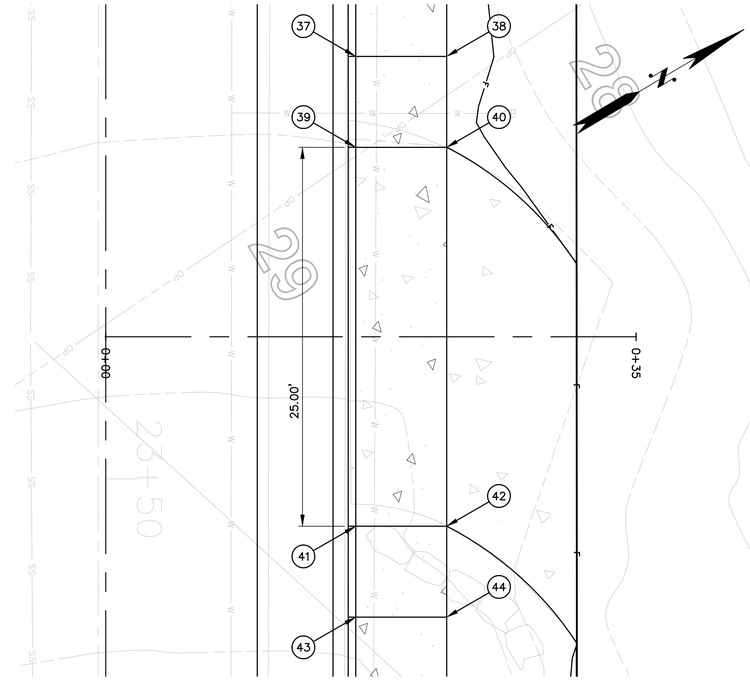
49 SHEET OF 89

PLOTTING DATE: 4/20/2016 USER: Travis FrankirFILE NAME: P:\10-140008 Inglewood Drainage\3 CADD\Sheets\P_10-140008_DWAY.dwg

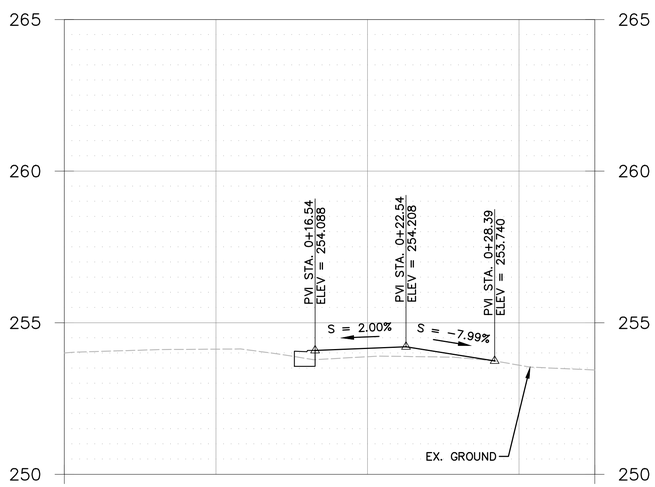
SEC. 20 , T. 25 N., R. 06 E., W.M.



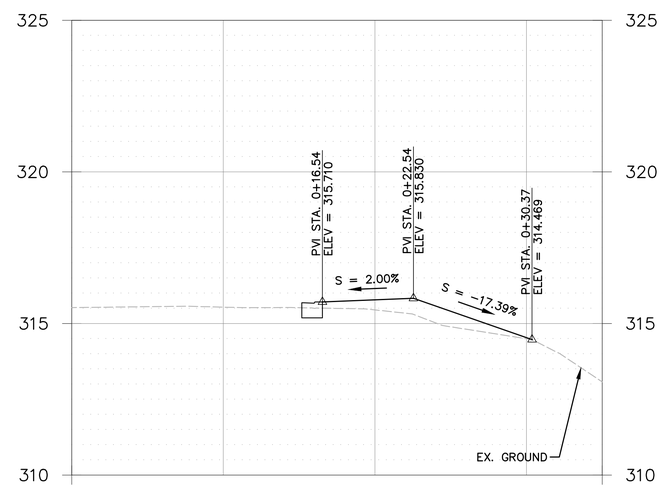
POINT NUMBER	FINISHED GRADE
27	252.14
28	252.26
29	252.54
30	252.82
31	252.95
32	255.06
33	255.17
34	255.34
35	256.07
36	256.19



POINT NUMBER	FINISHED GRADE
37	313.85
38	313.96
39	314.23
40	314.35
41	317.19
42	317.31
43	318.35
44	318.47



1/32 **DRIVEWAY DETAIL 28+63.21**
N.T.S.



2/34 **DRIVEWAY DETAIL 33+65.74**
N.T.S.

SCALE: 1" = 5'
0 5 10 15

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LAURA RUPPERT STATE OF WASHINGTON 43648 REGISTERED PROFESSIONAL ENGINEER
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INGLEWOOD HILL STORMWATER AND NON-MOTORIZED IMPROVEMENTS
ROADWAY DETAILS
DRIVEWAY PLAN AND PROFILE

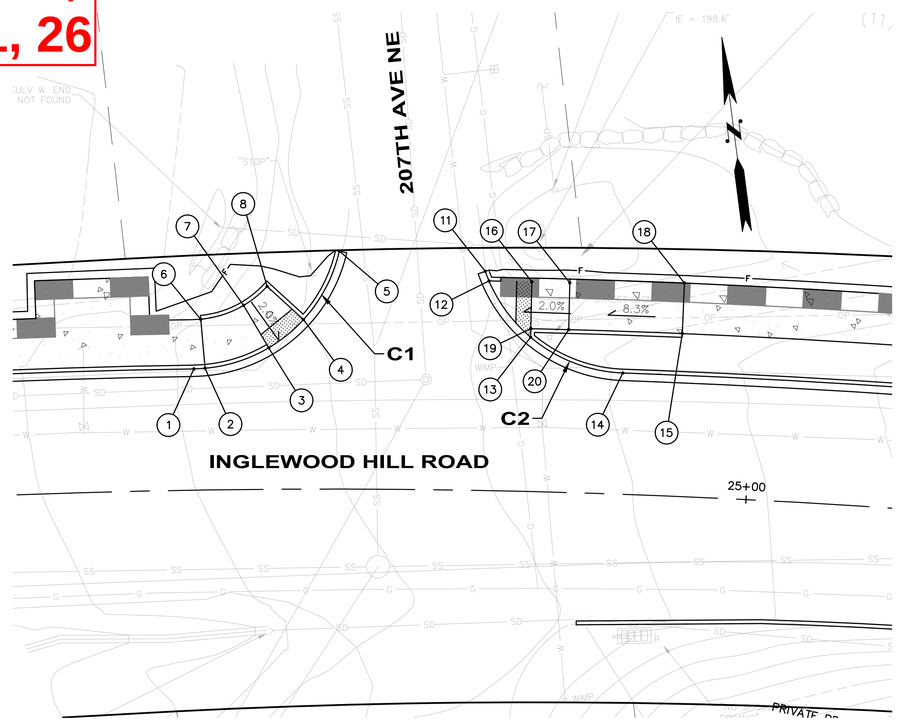
10-140008
OCI PROJECT NO.

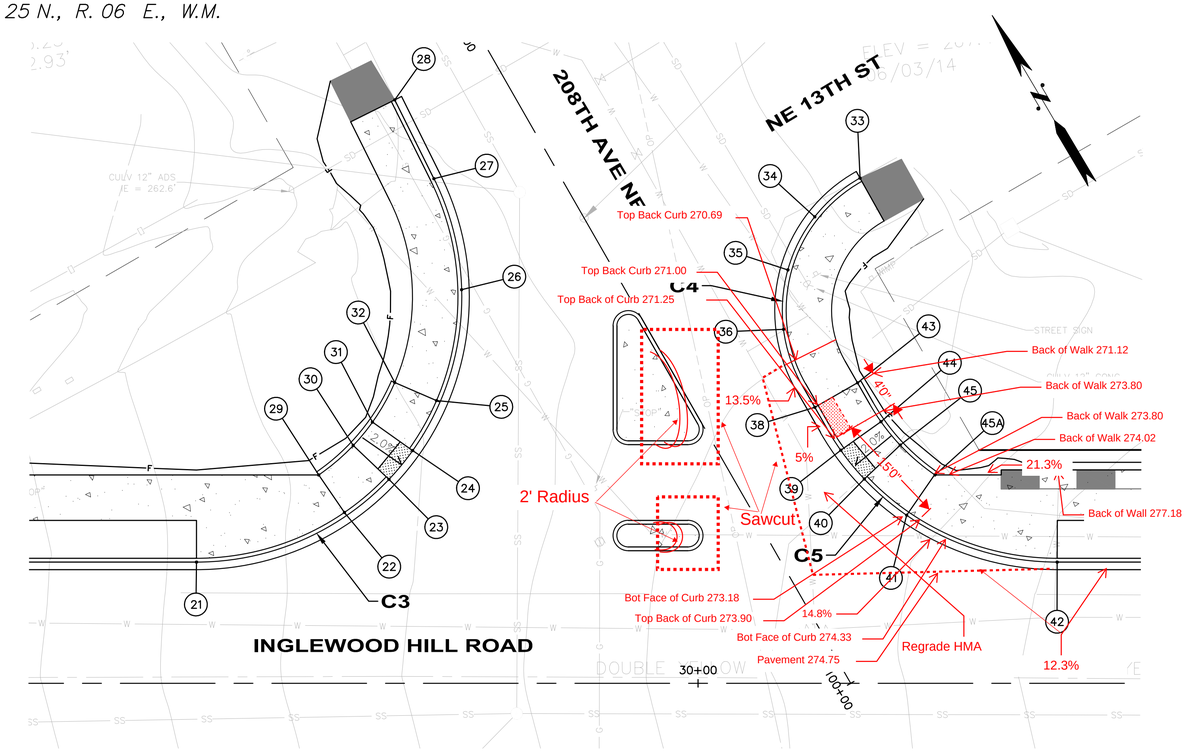
50 SHEET OF 89

PLOTTING DATE: 4/20/2016 USER: Travis Franklin FILE NAME: P:\10-140008 Inglewood Drainage\3 CADD\Sheets\P_10-140008_DWAY.dwg

RFI 002, FD 21, 26

SEC. 20, T. 25 N., R. 06 E., W.M.





CURB RETURN TABLE C1

##	STATION (OFFSET)	ELEV.	DESCRIPTION	CURVE DATA
1	24+27.37 (16.00' LT)	202.89	TOP OF CURB AT PT	Δ = 76°13'35" R = 20.00 T = 15.69 L = 26.61
2	24+28.83 (16.06' LT)	203.04	TOP OF CURB AT RAMP TOP	
3	24+37.12 (18.67' LT)	203.48	FLOWLINE AT RAMP TOE	
4	24+41.63 (22.37' LT)	204.17	FLOWLINE AT RAMP TOE	
5	24+46.26 (31.41' LT)	205.27	TOP OF CURB AT PC	
6	24+28.35 (22.54' LT)	203.16	FG AT BACK OF WALK	
7	24+33.92 (24.29' LT)	203.60	FG AT BACK OF WALK	
8	24+36.96 (26.78' LT)	204.29	FG AT BACK OF WALK	
9	NOT USED			
10	NOT USED			

CURB RETURN TABLE C2

##	STATION (OFFSET)	ELEV.	DESCRIPTION	CURVE DATA
11	24+65.04 (28.93' LT)	206.32	TOP OF CURB AT PC	Δ = 68°40'04" R = 20.00 T = 13.661 L = 23.97
12	24+65.54 (27.67' LT)	205.89	FLOWLINE AT RAMP TOE	
13	24+71.07 (20.35' LT)	206.75	FLOWLINE AT RAMP TOE	
14	24+83.17 (16.00' LT)	208.95	TOP OF CURB AT PT	
15	24+90.69 (21.50' LT)	209.72	FG AT TOP OF RAMP	
16	24+71.06 (27.67' LT)	206.86	FLOWLINE AT TOE OF LANDING	
17	24+75.94 (27.67' LT)	206.96	FLOWLINE AT TOP OF LANDING	
18	24+90.69 (27.67' LT)	209.83	FG AT TOP OF RAMP	
19	24+71.07 (21.50' LT)	206.81	FLOWLINE AT TOE OF LANDING	
20	24+75.97 (21.50' LT)	207.68	FLOWLINE AT TOE OF LANDING	

CURB RETURN TABLE C3

##	STATION (OFFSET)	ELEV.	DESCRIPTION	CURVE DATA
21	29+33.80 (16.00' LT)	262.62	TOP OF CURB AT PC	Δ = 116°27'05" R = 35.00 T = 56.51 L = 71.14
22	29+53.60 (22.14' LT)	265.58	TOP OF CURB AT RAMP TOP	
23	29+59.20 (26.92' LT)	265.77	FLOWLINE AT RAMP TOE	
24	29+62.31 (30.71' LT)	266.02	FLOWLINE AT RAMP TOE	
25	29+65.93 (37.11' LT)	267.06	TOP OF CURB AT RAMP TOP	
26	29+68.79 (51.94' LT)	267.93	TOP OF CURB	
27	29+65.14 (66.59' LT)	286.41	TOP OF CURB AT PT	
28	29+59.96 (76.96' LT)	269.18	TOP OF CURB	
29	29+49.64 (27.91' LT)	265.71	FG AT BACK OF WALK	
30	29+54.48 (31.39' LT)	265.90	FG AT BACK OF WALK	
31	29+57.02 (34.47' LT)	266.15	FG AT BACK OF WALK	
32	29+59.96 (39.69' LT)	267.18	FG AT BACK OF WALK	

CURB RETURN TABLE C4

##	STATION (OFFSET)	ELEV.	DESCRIPTION	CURVE DATA
33	100+57.23 (34.21' RT)	271.18	TOP OF CURB AT PC	Δ = 84°27'40" R = 20.00 T = 18.21 L = 29.57
34	100+55.77 (26.49' RT)	270.47	TOP OF CURB	
35	100+51.45 (19.93' RT)	270.05	TOP OF CURB	
36	100+44.94 (15.54' RT)	270.34	TOP OF CURB	
37	100+37.23 (14.00' RT)	270.92	TOP OF CURB AT PT	

CURB RETURN TABLE C5

##	STATION (OFFSET)	ELEV.	DESCRIPTION	CURVE DATA
38	100+33.96 (14.00' RT)	271.26	TOP OF CURB AT RAMP TOP	Δ = 60°11'29" R = 35.00 T = 20.29 L = 36.77
39	100+27.35 (14.16' RT)	271.50	FLOWLINE AT RAMP TOE	
40	100+22.50 (14.98' RT)	272.22	FLOWLINE AT RAMP TOE	
41	100+15.57 (17.44' RT)	273.90	TOP OF CURB AT RAMP TOP	
42	30+47.39 (16.00' LT)	276.94	TOP OF CURB AT PC	
43	100+33.96 (20.50' RT)	271.38	FG AT BACK OF WALK	
44	100+27.96 (20.63' RT)	271.62	FG AT BACK OF WALK	
45	100+24.02 (21.29' RT)	272.35	FG AT BACK OF WALK	
45A	100+18.38 (23.30' RT)	274.03	FG AT BACK OF WALK	

CURB RAMP NOTES:

1. RAMP LENGTH SHOWN FOR REFERENCE ONLY. CONTRACTOR TO FIELD VERIFY AND ADJUST LENGTH TO MEET RAMP SLOPE REQUIREMENTS PER DETAILS.

SCALE: 1" = 10'

0 10 20 30

Know what's below. Call before you dig.

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SCALE BARS INDICATE SCALE OF FULL-SIZE (22 X 34 INCH) DRAWINGS. FOR REDUCED SIZE DRAWINGS ADJUST SCALE ACCORDINGLY.

NO.	DATE	BY	CKD.	REVISION
1	7/1/16	TNF	LR	RFI-002 VERTICAL DATUM

City of Sammamish Washington

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1800 112th Ave. NE, Suite 220E Ph (425) 451-4009
Bellevue, WA. 98004 Fax (425) 451-4901

DESIGNED BY: LCR
DRAWN BY: RDH
CHECKED BY: LAT
DATE: FEB. 2016

INGLEWOOD HILL STORMWATER AND NON-MOTORIZED IMPROVEMENTS
ROADWAY DETAILS
CURB RAMP PLANS

10-140008
OCI PROJECT NO.

51 SHEET OF 89

PLOTTING DATE: 7/1/2016 USER: Travis FranklinFILE NAME: P:\10-140008 Inglewood Drainage\3 CADD\Sheets\P_10-140008_DWAY.dwg

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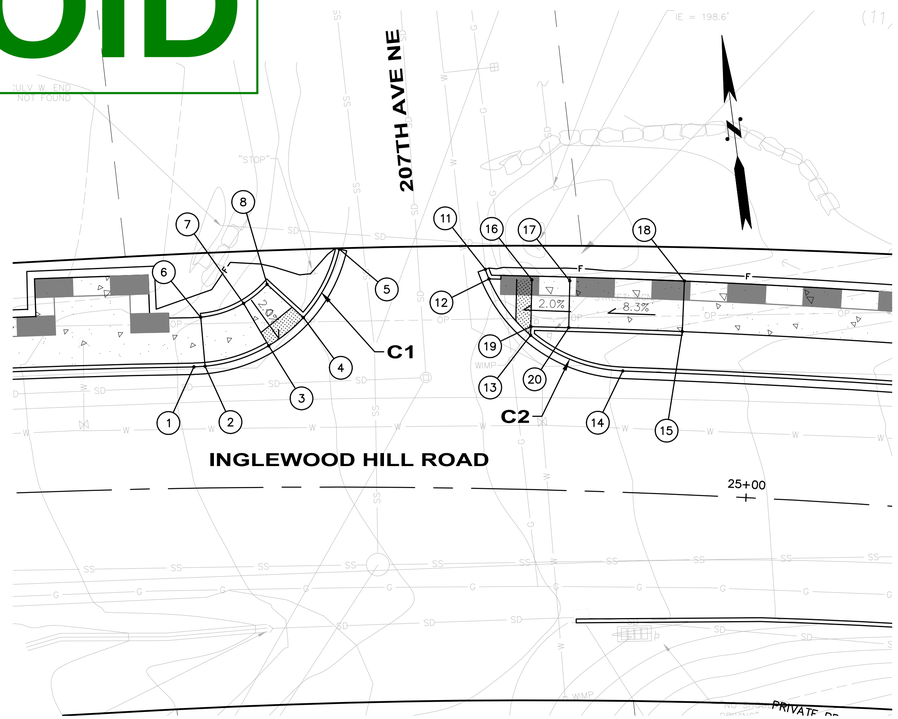
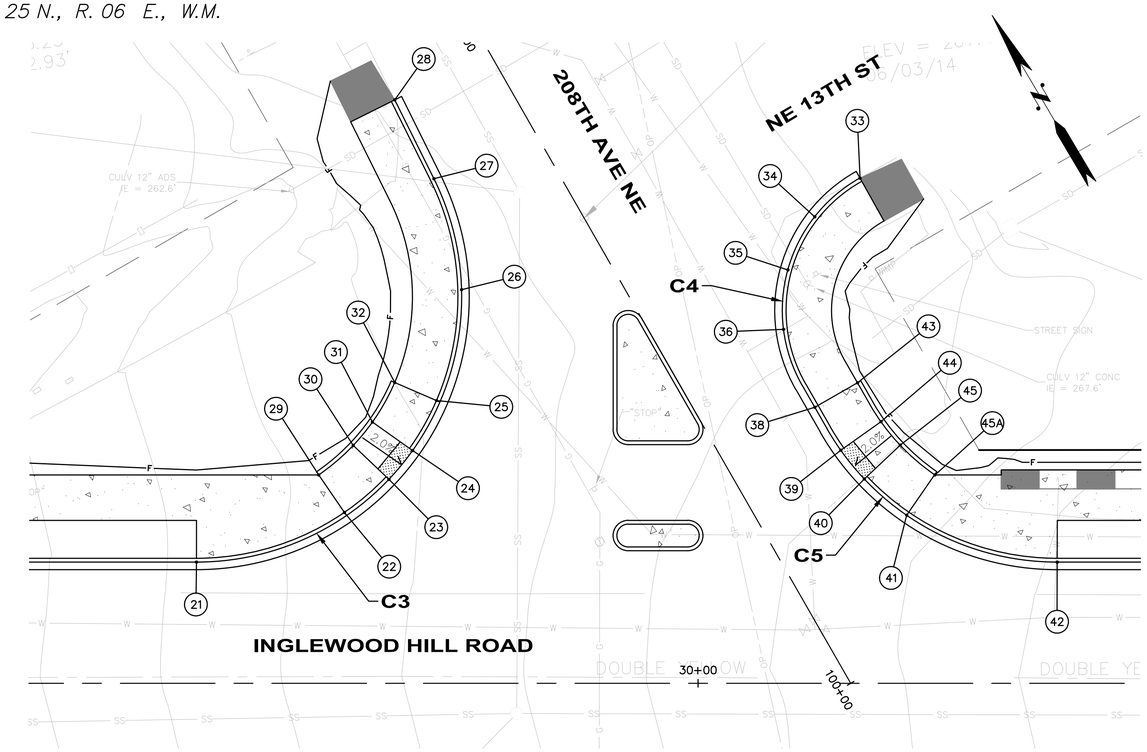
SEC. 20, T. 25 N., R. 06 E., W.M.





CURB RETURN TABLE C1

(##)	STATION (OFFSET)	ELEV.	DESCRIPTION	CURVE DATA
1	24+27.37 (16.00' LT)	202.89	TOP OF CURB AT PT	Δ = 76°13'35" R = 20.00 T = 15.69 L = 26.61
2	24+28.83 (16.06' LT)	202.04	TOP OF CURB AT RAMP TOP	
3	24+37.12 (18.67' LT)	203.48	FLOWLINE AT RAMP TOE	
4	24+41.63 (22.37' LT)	204.17	FLOWLINE AT RAMP TOE	
5	24+46.26 (31.41' LT)	205.27	TOP OF CURB AT PC	
6	24+28.35 (22.54' LT)	203.16	FG AT BACK OF WALK	
7	24+33.92 (24.29' LT)	203.60	FG AT BACK OF WALK	
8	24+36.96 (26.78' LT)	204.29	FG AT BACK OF WALK	
9	NOT USED			
10	NOT USED			

CURB RETURN TABLE C2

(##)	STATION (OFFSET)	ELEV.	DESCRIPTION	CURVE DATA
11	24+65.04 (28.93' LT)	206.32	TOP OF CURB AT PC	Δ = 68°40'04" R = 20.00 T = 13.661 L = 23.97
12	24+65.54 (27.67' LT)	205.89	FLOWLINE AT RAMP TOE	
13	24+71.07 (20.35' LT)	206.75	FLOWLINE AT RAMP TOE	
14	24+83.17 (16.00' LT)	208.95	TOP OF CURB AT PT	
15	24+90.69 (21.50' LT)	209.72	FG AT TOP OF RAMP	
16	24+71.06 (27.67' LT)	206.86	FLOWLINE AT TOE OF LANDING	
17	24+75.94 (27.67' LT)	206.96	FLOWLINE AT TOP OF LANDING	
18	24+90.69 (27.67' LT)	209.83	FG AT TOP OF RAMP	
19	24+71.07 (21.50' LT)	206.81	FLOWLINE AT TOE OF LANDING	
20	24+75.97 (21.50' LT)	207.68	FLOWLINE AT TOE OF LANDING	

CURB RETURN TABLE C3

(##)	STATION (OFFSET)	ELEV.	DESCRIPTION	CURVE DATA
21	29+33.80 (16.00' LT)	262.62	TOP OF CURB AT PC	Δ = 116°27'05" R = 35.00 T = 56.51 L = 71.14
22	29+53.60 (22.14' LT)	265.58	TOP OF CURB AT RAMP TOP	
23	29+59.20 (26.92' LT)	265.77	FLOWLINE AT RAMP TOE	
24	29+62.31 (30.71' LT)	266.02	FLOWLINE AT RAMP TOE	
25	29+65.93 (37.11' LT)	267.06	TOP OF CURB AT RAMP TOP	
26	29+68.79 (51.94' LT)	267.93	TOP OF CURB	
27	29+65.14 (66.59' LT)	286.41	TOP OF CURB AT PT	
28	29+59.96 (76.96' LT)	269.18	TOP OF CURB	
29	29+49.64 (27.91' LT)	265.71	FG AT BACK OF WALK	
30	29+54.48 (31.39' LT)	265.90	FG AT BACK OF WALK	
31	29+57.02 (34.47' LT)	266.15	FG AT BACK OF WALK	
32	29+59.96 (39.69' LT)	267.18	FG AT BACK OF WALK	

CURB RETURN TABLE C4

(##)	STATION (OFFSET)	ELEV.	DESCRIPTION	CURVE DATA
33	100+57.23 (34.21' RT)	271.18	TOP OF CURB AT PC	Δ = 84°27'40" R = 20.00 T = 18.21 L = 29.57
34	100+55.77 (26.49' RT)	270.47	TOP OF CURB	
35	100+51.45 (19.93' RT)	270.05	TOP OF CURB	
36	100+44.94 (15.54' RT)	270.34	TOP OF CURB	
37	100+37.23 (14.00' RT)	270.92	TOP OF CURB AT PT	

CURB RETURN TABLE C5

(##)	STATION (OFFSET)	ELEV.	DESCRIPTION	CURVE DATA
38	100+33.96 (14.00' RT)	271.26	TOP OF CURB AT RAMP TOP	Δ = 60°11'29" R = 35.00 T = 20.29 L = 36.77
39	100+27.35 (14.16' RT)	271.50	FLOWLINE AT RAMP TOE	
40	100+22.50 (14.98' RT)	272.22	FLOWLINE AT RAMP TOE	
41	100+15.57 (17.44' RT)	273.90	TOP OF CURB AT RAMP TOP	
42	30+47.39 (16.00' LT)	276.94	TOP OF CURB AT PC	
43	100+33.96 (20.50' RT)	271.38	FG AT BACK OF WALK	
44	100+27.96 (20.63' RT)	271.62	FG AT BACK OF WALK	
45	100+24.02 (21.29' RT)	272.35	FG AT BACK OF WALK	
45A	100+18.38 (23.30' RT)	274.03	FG AT BACK OF WALK	

CURB RAMP NOTES:

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SCALE: 1" = 10'

0 10 20 30

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4/20/16

SCALE BARS INDICATE SCALE OF FULL-SIZE (22 X 34 INCH) DRAWINGS. FOR REDUCED SIZE DRAWINGS ADJUST SCALE ACCORDINGLY.

NO.	DATE	BY	CKD.	REVISION

City of Sammamish Washington

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Bellevue, WA. 98004 Fax (425) 451-4901

DESIGNED BY: LCR
DRAWN BY: RDH
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DATE: FEB. 2016

INGLEWOOD HILL STORMWATER AND NON-MOTORIZED IMPROVEMENTS
ROADWAY DETAILS
CURB RAMP PLANS

10-140008
OCI PROJECT NO.

51 SHEET OF 89

PLOTTING DATE: 4/20/2016 USER: Travis FranklinFILE NAME: P:\10-140008 Inglewood Drainage\3 CADD\Sheets\P_10-140008_DWAY.dwg

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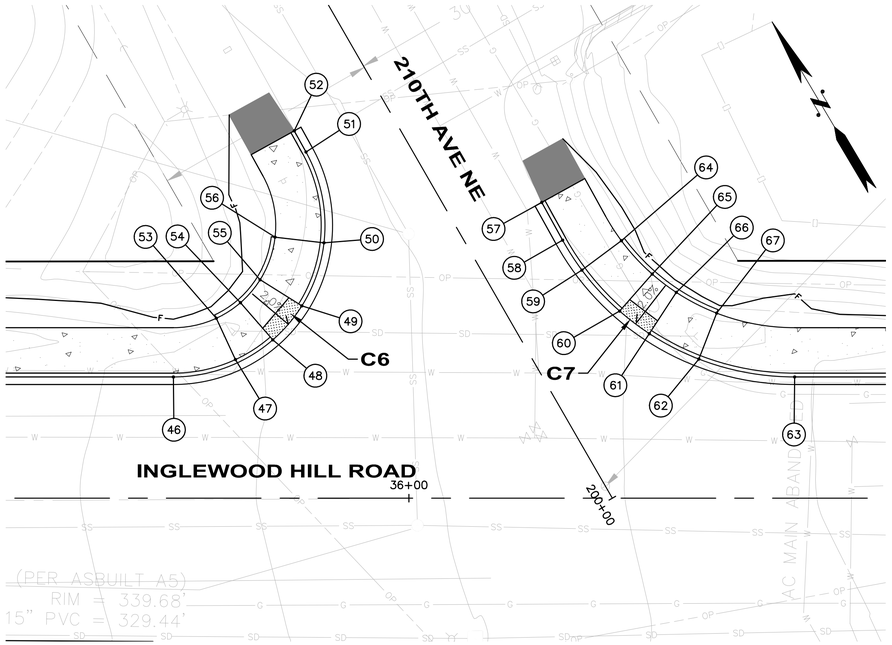

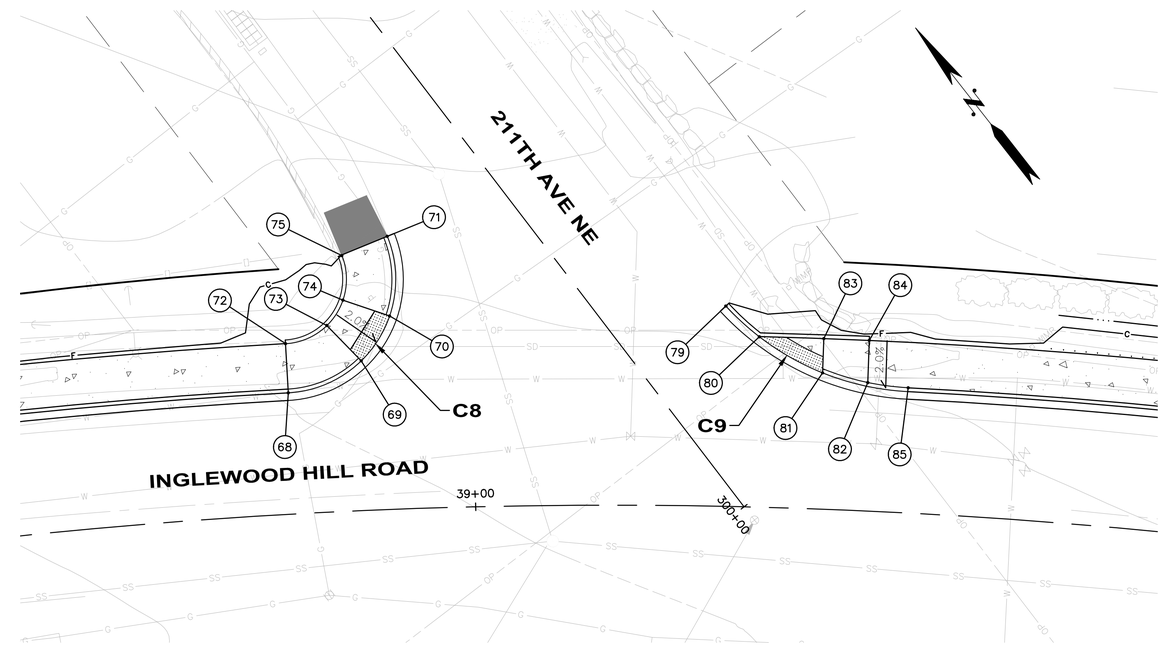

CURB RETURN TABLE C6

(##)	STATION (OFFSET)	ELEV.	DESCRIPTION	CURVE DATA
46	35+68.93 (16.00' LT)	337.47	TOP OF CURB AT PC	Δ = 95°35'28" R = 20.00 T = 22.05 L = 33.37
47	35+77.11 (18.30' LT)	338.19	TOP OF CURB AT TOP OF RAMP	
48	35+82.04 (20.90' LT)	338.14	FLOWLINE AT RAMP TOE	
49	35+85.88 (25.39' LT)	338.56	FLOWLINE AT RAMP TOE	
50	200+48.20 (16.17' LT)	339.66	TOP OF CURB AT RAMP TOP	
51	200+59.76 (12.24' LT)	340.12	TOP OF CURB AT PT	
52	200+62.95 (12.19' LT)	340.17	TOP OF CURB	
53	35+74.59 (23.75' LT)	338.31	FG AT TOP OF RAMP	
54	35+77.78 (25.81' LT)	338.26	FG AT BACK OF WALK	
55	35+80.36 (28.83' LT)	338.68	FG AT BACK OF WALK	
56	200+52.06 (21.39' LT)	339.78	FG AT TOP OF RAMP	

CURB RETURN TABLE C7

(##)	STATION (OFFSET)	ELEV.	DESCRIPTION	CURVE DATA
57	200+38.48 (11.40' RT)	341.69	TOP OF CURB	
58	200+32.79 (11.30' RT)	341.88	TOP OF CURB AT PT	Δ = 61°02'30" R = 35.00 T = 20.63 L = 37.29
59	200+28.09 (11.54' RT)	342.03	TOP OF CURB AT RAMP TOP	
60	200+20.92 (13.17' RT)	341.91	FLOWLINE AT RAMP TOE	
61	200+16.39 (15.07' RT)	342.24	FLOWLINE AT RAMP TOE	
62	200+10.22 (19.06' RT)	343.28	TOP OF CURB AT RAMP TOP	
63	36+50.91 (16.00' LT)	344.47	TOP OF CURB AT PC	
64	200+28.85 (18.00' RT)	342.15	FG AT TOP OF RAMP	
65	200+23.01 (19.32' RT)	342.03	FG AT BACK OF WALK	
66	200+19.33 (20.87' RT)	342.36	FG AT BACK OF WALK	
67	200+14.30 (24.12' RT)	343.40	FG AT TOP OF RAMP	

CURB RETURN TABLE C8

(##)	STATION (OFFSET)	ELEV.	DESCRIPTION	CURVE DATA
68	38+76.12 (16.00' LT)	356.61	TOP OF CURB AT PC	Δ = 109°03'29" R = 15.00 T = 21.05 L = 28.55
69	38+85.72 (19.75' LT)	356.75	FLOWLINE AT RAMP TOE	
70	300+48.41 (21.90' LT)	357.48	FLOWLINE AT RAMP TOE	
71	300+56.96 (15.77' LT)	359.43	TOP OF CURB AT PT	
72	38+76.12 (22.50' LT)	356.73	FG AT BACK OF WALK	
73	38+81.53 (24.61' LT)	356.93	FG AT BACK OF WALK	
74	300+53.81 (25.52' LT)	357.60	FG AT BACK OF WALK	
75	300+58.57 (22.07' LT)	359.52	FG AT BACK OF WALK	
76	NOT USED			
77	NOT USED			
78	NOT USED			

CURB RETURN TABLE C9

(##)	STATION (OFFSET)	ELEV.	DESCRIPTION	CURVE DATA
79	300+22.51 (14.17' RT	358.85	TOP OF CURB AT PT	Δ = 44°30'37" R = 35.00 T = 14.32 L = 27.19
80	300+16.61 (15.22' RT)	358.22	FLOWLINE AT RAMP TOE	
81	39.45.14 (19.97' LT)	358.11	FLOWLINE AT RAMP TOE	
82	39+51.00 (19.93' LT)	358.61	TOP OF CURB AT RAMP TOP	
83	39+45.14 (22.50' LT)	358.21	FG AT BACK OF WALK	
84	39+50.96 (2.50' LT)	358.72	FG AT BACK OF WALK	
1 85	3+56.25 (16.50' LT)	358.64	TOP OF CURB AT PC	
86	NOT USED			
87	NOT USED			

SCALE: 1" = 10'

0 10 20 30

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NO.	DATE	BY	CKD.	REVISION
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Bellevue, WA. 98004 Fax (425) 451-4901

DESIGNED BY: LCR
DRAWN BY: RDH
CHECKED BY: LAT
DATE: FEB. 2016

INGLEWOOD HILL STORMWATER AND NON-MOTORIZED IMPROVEMENTS
ROADWAY DETAILS
CURB RAMP PLANS

10-140008
OCI PROJECT NO.

52 SHEET OF 89

PLOTTING DATE: 7/1/2016 USER: Travis FranklinFILE NAME: P:\10-140008 Inglewood Drainage\3 CADD\Sheets\P_10-140008_DWAY.dwg

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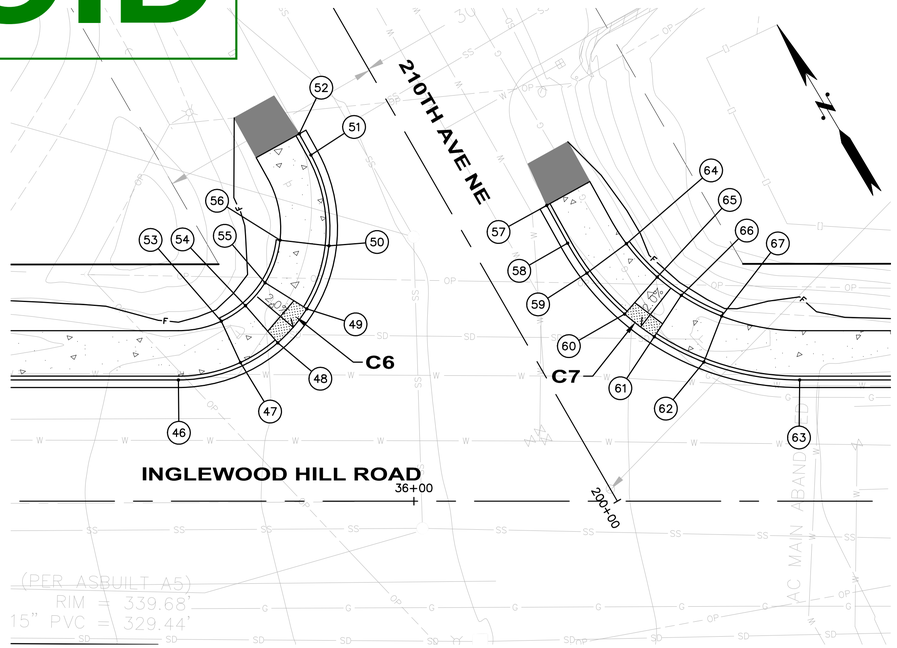

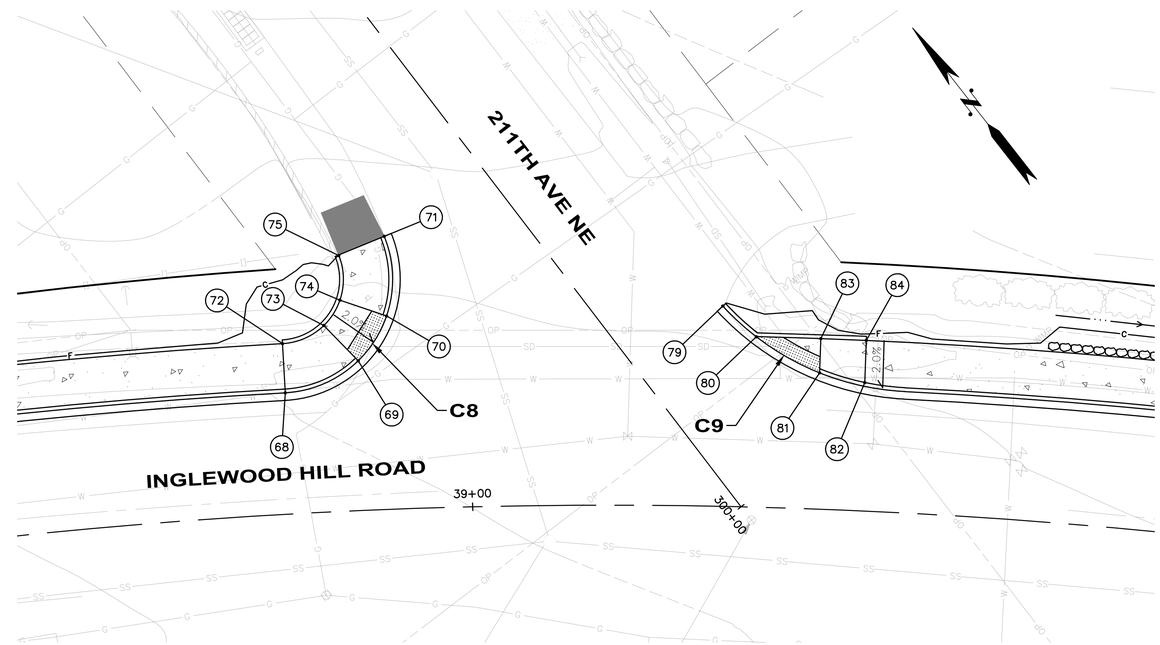

CURB RETURN TABLE C6				
(##)	STATION (OFFSET)	ELEV.	DESCRIPTION	CURVE DATA
46	35+68.93 (16.00' LT)	337.47	TOP OF CURB AT PC	Δ = 95°35'28" R = 20.00 T = 22.05 L = 33.37
47	35+77.11 (18.30' LT)	338.19	TOP OF CURB AT TOP OF RAMP	
48	35+82.04 (20.90' LT)	338.14	FLOWLINE AT RAMP TOE	
49	35+85.88 (25.39' LT)	338.56	FLOWLINE AT RAMP TOE	
50	200+48.20 (16.17' LT)	339.66	TOP OF CURB AT RAMP TOP	
51	200+59.76 (12.24' LT)	340.12	TOP OF CURB AT PT	
52	200+62.95 (12.19' LT)	340.17	TOP OF CURB	
53	35+74.59 (23.75' LT)	338.31	FG AT TOP OF RAMP	
54	35+77.78 (25.81' LT)	338.26	FG AT BACK OF WALK	
55	35+80.36 (28.83' LT)	338.68	FG AT BACK OF WALK	
56	200+52.06 (21.39' LT)	339.78	FG AT TOP OF RAMP	
CURB RETURN TABLE C7				
57	200+38.48 (11.40' RT)	341.69	TOP OF CURB	
58	200+32.79 (11.30' RT)	341.88	TOP OF CURB AT PT	Δ = 61°02'30" R = 35.00 T = 20.63 L = 37.29
59	200+28.09 (11.54' RT)	342.03	TOP OF CURB AT RAMP TOP	
60	200+20.92 (13.17' RT)	341.91	FLOWLINE AT RAMP TOE	
61	200+16.39 (15.07' RT)	342.24	FLOWLINE AT RAMP TOE	
62	200+10.22 (19.06' RT)	343.28	TOP OF CURB AT RAMP TOP	
63	36+50.91 (16.00' LT)	344.47	TOP OF CURB AT PC	
64	200+28.85 (18.00' RT)	342.15	FG AT TOP OF RAMP	
65	200+23.01 (19.32' RT)	342.03	FG AT BACK OF WALK	
66	200+19.33 (20.87' RT)	342.36	FG AT BACK OF WALK	
67	200+14.30 (24.12' RT)	343.40	FG AT TOP OF RAMP	

CURB RETURN TABLE C8				
(##)	STATION (OFFSET)	ELEV.	DESCRIPTION	CURVE DATA
68	38+76.12 (16.00' LT)	356.61	TOP OF CURB AT PC	Δ = 109°03'29" R = 15.00 T = 21.05 L = 28.55
69	38+85.72 (19.75' LT)	356.75	FLOWLINE AT RAMP TOE	
70	300+48.41 (21.90' LT)	357.48	FLOWLINE AT RAMP TOE	
71	300+56.96 (15.77' LT)	359.43	TOP OF CURB AT PT	
72	38+76.12 (22.50' LT)	356.73	FG AT BACK OF WALK	
73	38+81.53 (24.61' LT)	356.93	FG AT BACK OF WALK	
74	300+53.81 (25.52' LT)	357.60	FG AT BACK OF WALK	
75	300+58.57 (22.07' LT)	359.52	FG AT BACK OF WALK	
76	NOT USED			
77	NOT USED			
78	NOT USED			
CURB RETURN TABLE C9				
79	300+22.51 (14.17' RT	358.85	TOP OF CURB AT PT	Δ = 44°30'37" R = 35.00 T = 14.32 L = 27.19
80	300+16.61 (15.22' RT)	358.22	FLOWLINE AT RAMP TOE	
81	39.45.14 (19.97' LT)	358.11	FLOWLINE AT RAMP TOE	
82	39+51.00 (19.93' LT)	358.61	TOP OF CURB AT RAMP TOP	
83	39+45.14 (22.50' LT)	358.21	FG AT BACK OF WALK	
84	39+50.96 (2.50' LT)	358.72	FG AT BACK OF WALK	
85	NOT USED			
86	NOT USED			
87	NOT USED			

SCALE: 1" = 10'

0 10 20 30

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4/20/16

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CURB RAMP PLANS

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OCI PROJECT NO.

52 SHEET OF 89

PLOTTING DATE: 4/20/2016 USER: Travis FranklinFILE NAME: P:\10-140008 Inglewood Drainage\3 CADD\Sheets\P_10-140008_DWAY.dwg

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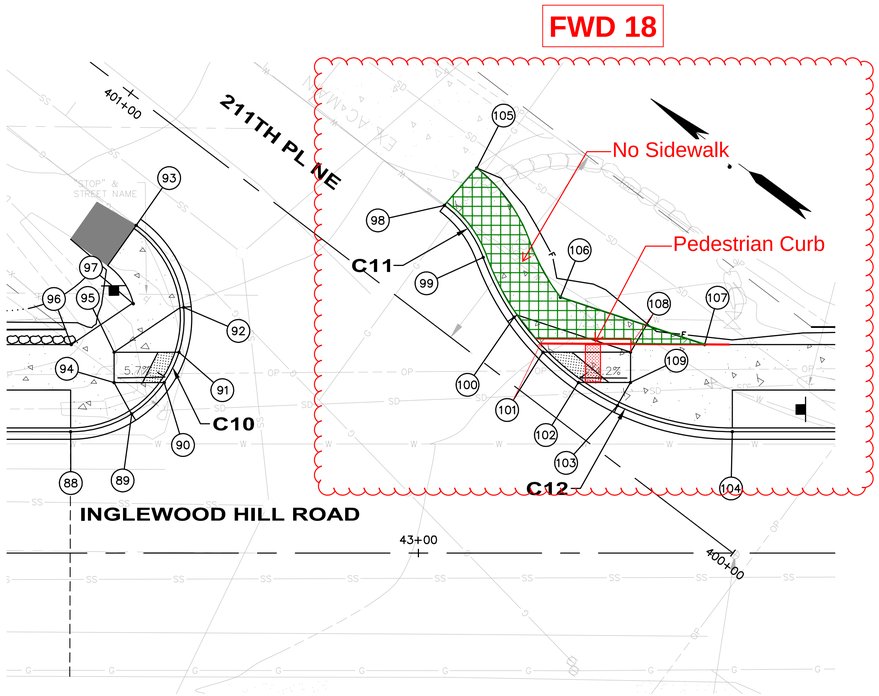

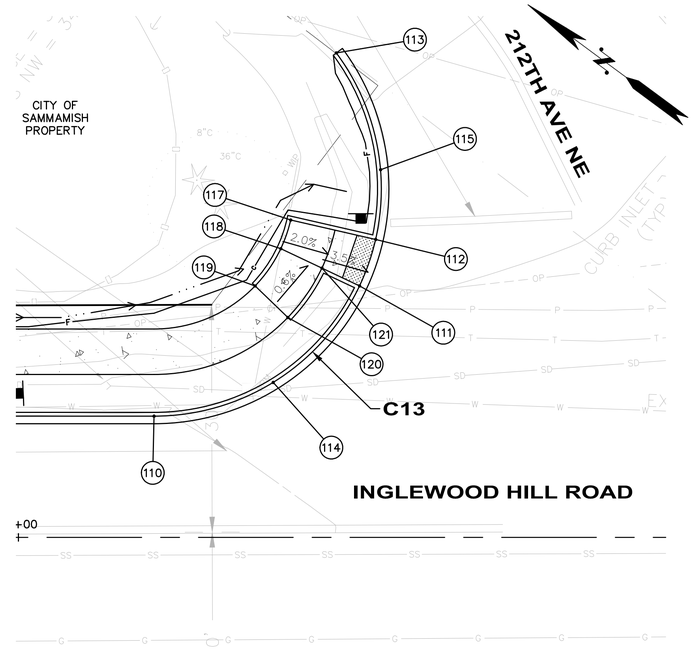

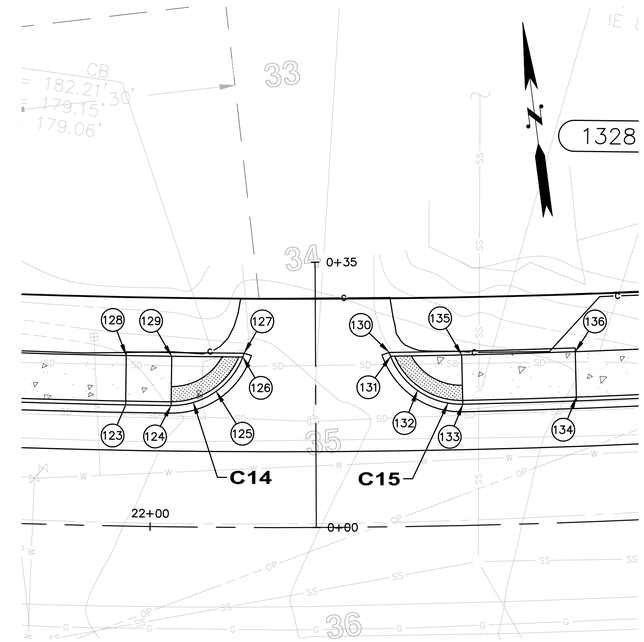

CURB RETURN TABLE C10

	STATION (OFFSET)	ELEV.	DESCRIPTION	CURVE DATA
88	42+54.09 (16.00' LT)	355.78	TOP OF CURB AT PC	Δ = 144°44'11" R = 15.00 T = 47.18 L = 37.88
89	42+62.16 (18.35' LT)	355.80	TOP OF CURB AT RAMP TOP	
90	42+66.45 (22.49' LT)	355.71	FLOWLINE AT RAMP TOE	
91	42+68.40 (26.49' LT)	355.90	FLOWLINE AT RAMP TOE	
92	400+69.02 (32.42' LT)	356.71	TOP OF CURB AT RAMP TOP	
93	400+88.83 (13.44' LT)	357.53	TOP OF CURB AT PT	
94	42+59.83 (22.49' LT)	356.09	FG AT RAMP TOP	
95	42+59.83 (26.49' LT)	356.17	FG AT RAMP TOP	
96	42+56.36 (24.50' LT)	356.20	FG AT BACK OF WALK	
97	42+62.37 (32.89' LT)	356.74	FG AT BACK OF WALK	

CURB RETURN TABLE C11

	STATION (OFFSET)	ELEV.	DESCRIPTION	CURVE DATA
98	400+58.09 (13.35' RT)	355.88	TOP OF CURB AT PC	Δ = 33°08'28" R = 15.00 T = 4.46 L = 8.86
99	400+49.87 (10.99' RT)	355.48	TOP OF CURB AT PRC	

CURB RETURN TABLE C12

	STATION (OFFSET)	ELEV.	DESCRIPTION	CURVE DATA
99	400+49.87 (10.99' RT)	355.48	TOP OF CURB AT PRC	Δ = 69°57'01" R = 35.00 T = 24.48 L = 42.73
100	400+41.85 (7.20' RT)	355.07	TOP OF CURB AT RAMP TOP	
101	400+36.01 (5.84' RT)	354.30	FLOWLINE AT RAMP TOE	
102	400+29.87 (5.50' RT)	354.02	FLOWLINE AT RAMP TOE	
103	400+23.91 (6.21' RT)	354.24	TOP OF CURB AT RAMP TOP	
104	400+09.78 (12.66' RT)	353.52	TOP OF CURB AT PT	
105	400+57.69 (19.85' RT)		MATCH EXISTING	
106	400+38.57 (13.00' RT)	354.92	FG AT BACK OF WALK	
107	400+23.06 (16.99' RT)	354.24	FG AT BACK OF WALK	
108	400+26.83 (12.85' RT)	354.39	FG AT RAMP TOP	
109	400+24.40 (9.67' RT)	354.31	FG AT RAMP TOP	

CURB RETURN TABLE C13

	STATION (OFFSET)	ELEV.	DESCRIPTION	CURVE DATA
110	46+17.89 (16.00' LT)	346.58	TOP OF CURB AT PC	Δ = 126°41'19" R = 30.00 T = 59.76 L = 66.33
111	46+45.01 (33.18' LT)	346.09	FLOWLINE AT RAMP TOE	
112	46+47.14 (39.31' LT)	346.42	FLOWLINE AT RAMP TOE	
113	46+41.95 (63.92' LT)	349.05	TOP OF CURB AT PT	
114	46+33.61 (20.45' LT)	346.30	TOP OF CURB AT 1/2	
115	46+47.79 (48.52' LT)	347.69	TOP OF CURB AT 3/4	
116	NOT USED			
117	46+35.92 (41.87' LT)	346.48	FLOWLINE AT TOP OF LANDING	
118	46+34.62 (38.09' LT)	346.40	FLOWLINE AT RAMP TOE	
119	46+31.22 (33.18' LT)	346.44	FLOWLINE AT RAMP TOP	
120	46+35.55 (29.02' LT)	346.32	FLOWLINE AT RAMP TOP	
121	46+40.04 (35.53' LT)	346.28	FLOWLINE AT RAMP TOP	
122	46+41.77 (40.53' LT)	346.42	FLOWLINE AT RAMP TOP	

CURB RETURN TABLE C14

(##)	STATION (OFFSET)	ELEV.	DESCRIPTION	CURVE DATA
123	21+96.47 (16.00' LT)	181.97	TOP OF CURB AT PC	Δ = 72°47'48" R = 10.00 T = 7.37 L = 12.71
124	22+02.56 (16.00' LT)	182.02	FLOWLINE AT RAMP TOE	
125	22+08.59 (17.93' LT)	182.81	FLOWLINE AT 1/2 POINT	
126	22+12.14 (22.50' LT)	183.57	FLOWLINE AT RAMP TOE	
127	22+12.32 (23.00' LT)	183.60	FLOWLINE AT PT	
128	21+96.43 (22.50' LT)	182.12	FG AT BACK OF WALK	
129	22+02.56 (22.50' LT)	182.17	FLOWLINE AT RAMP TOE	

CURB RETURN TABLE C15

130	22+31.88 (23.00' LT)	185.38	FLOWLINE AT PC	Δ = 72°47'39" R = 10.00 T = 7.37 L = 12.70
131	22+32.06 (22.50' LT)	185.37	FLOWLINE AT LANDING TOE	
132	22+35.61 (17.93' LT)	185.26	FLOWLINE AT MIDPOINT	
133	22+41.64 (16.00' LT)	185.13	FLOWLINE AT PT	
134	22+56.87 (16.50' LT)	186.81	TOP OF CURB AT RAMP TOP	
135	22+41.64 (22.50' LT)	185.27	FLOWLINE AT RAMP TOE	
136	22+56.95 (22.50' LT)	186.93	FLOWLINE AT RAMP TOP	

811 Know what's below. Call before you dig.

LAURA RUPPERT STATE OF WASHINGTON 43848 REGISTERED PROFESSIONAL ENGINEER

4/20/16

SCALE: 1" = 10'

0 10 20 30

SCALE BARS INDICATE SCALE OF FULL-SIZE (22 X 34 INCH) DRAWINGS. FOR REDUCED SIZE DRAWINGS ADJUST SCALE ACCORDINGLY.

NO.	DATE	BY	CKD.	REVISION

City of Sammamish Washington

OSBORN CONSULTING INCORPORATED

OSBORN CONSULTING, INC.
1800 112th Ave. NE, Suite 220E Ph (425) 451-4009
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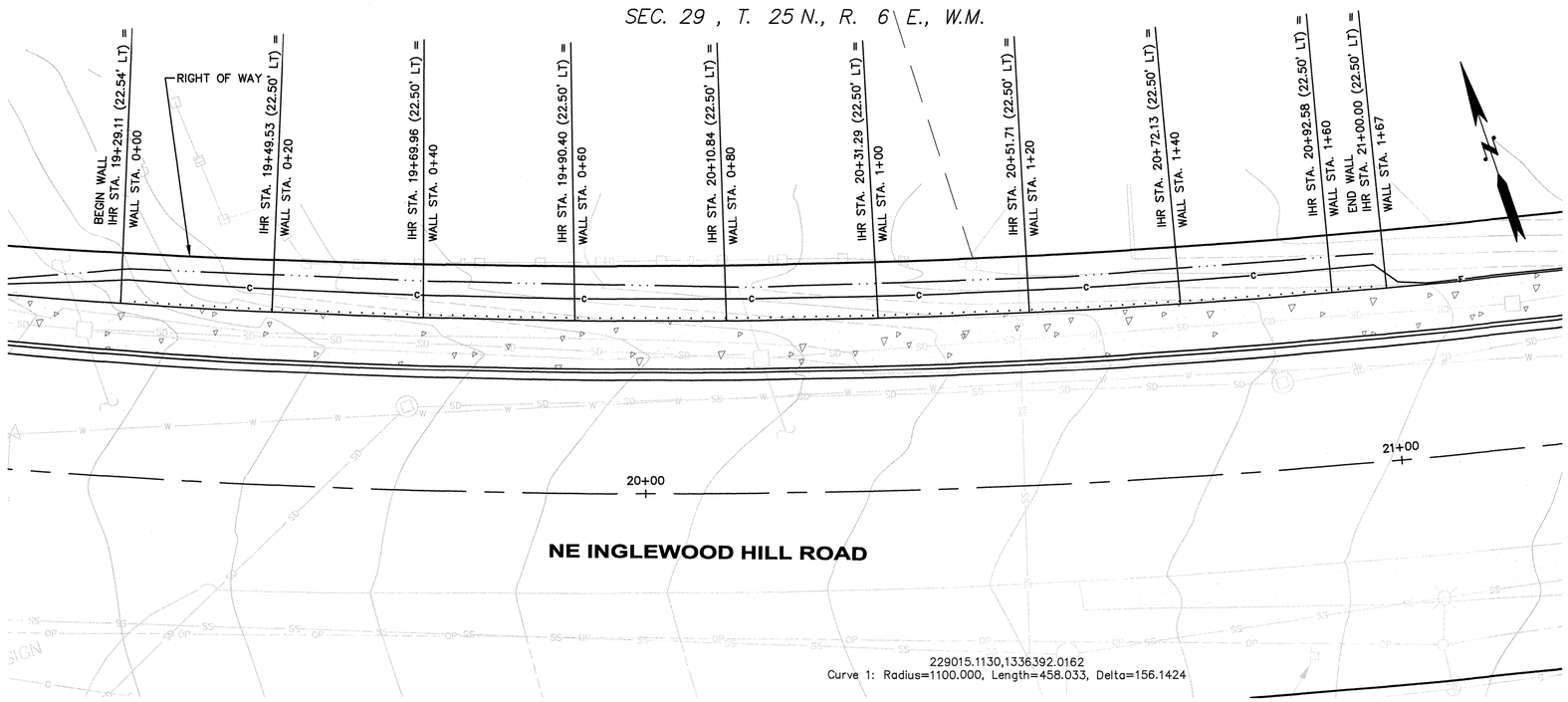
DRAWN BY: RDH
CHECKED BY: LAT
DATE: FEB. 2016

INGLEWOOD HILL STORMWATER AND NON-MOTORIZED IMPROVEMENTS
ROADWAY DETAILS
CURB RAMP PLANS

10-140008
OCI PROJECT NO.

53 SHEET OF 89

PLOTTING DATE: 4/20/2016 USER: Travis Franklin FILE NAME: P:\10-140008 Inglewood Drainage\3 CADD\Sheets\P_10-140008_DWAY.dwg

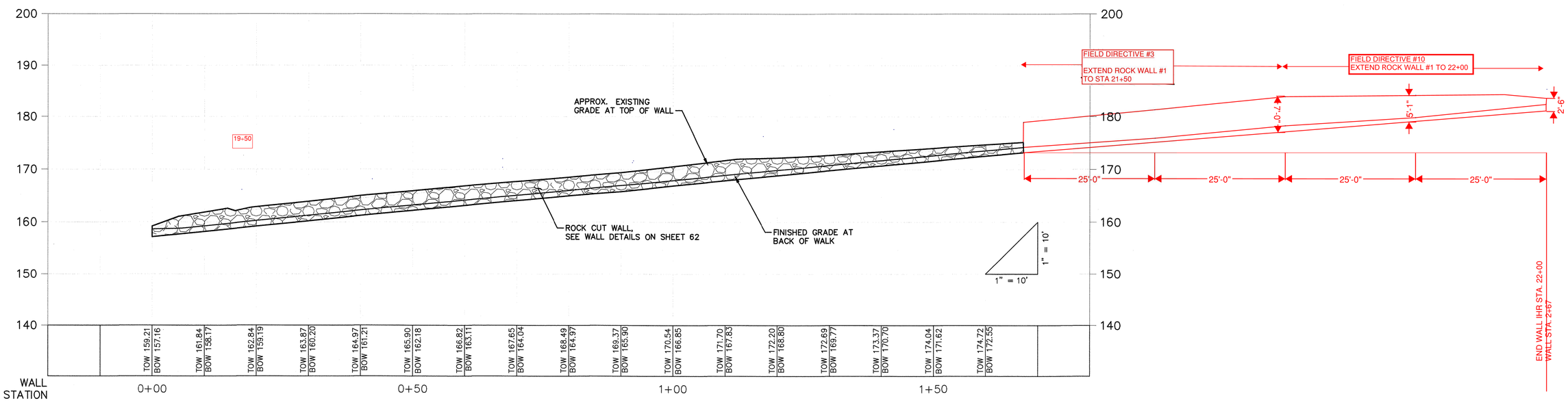


WALL 1 PLAN

SCALE: 1"=10'

GENERAL NOTES:

1. WALL PROFILES ARE TYPICAL ONLY. CONTRACTOR SHALL VERIFY AND ADJUST ROCK OR BLOCK LAYOUT AS REQUIRED. CONTRACTOR SHALL COORDINATE WITH ENGINEER.



WALL 1 PROFILE

HORIZ. SCALE: 1"=10'
VERT. SCALE: 1"=10'

SCALE: 1" = 10'
0 10 20 30

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INGLEWOOD HILL STORMWATER AND NON-MOTORIZED IMPROVEMENTS
WALL PLAN AND PROFILE
WALL 1

10-140008
OCI PROJECT NO.

54 SHEET OF 89

PLOTTING DATE: 3/8/2016 USER: Richard Herrmann NAME: P:\10-140008 Inglewood Drainage\3 CADD\Sheets\P_10-140008_WRP.dwg

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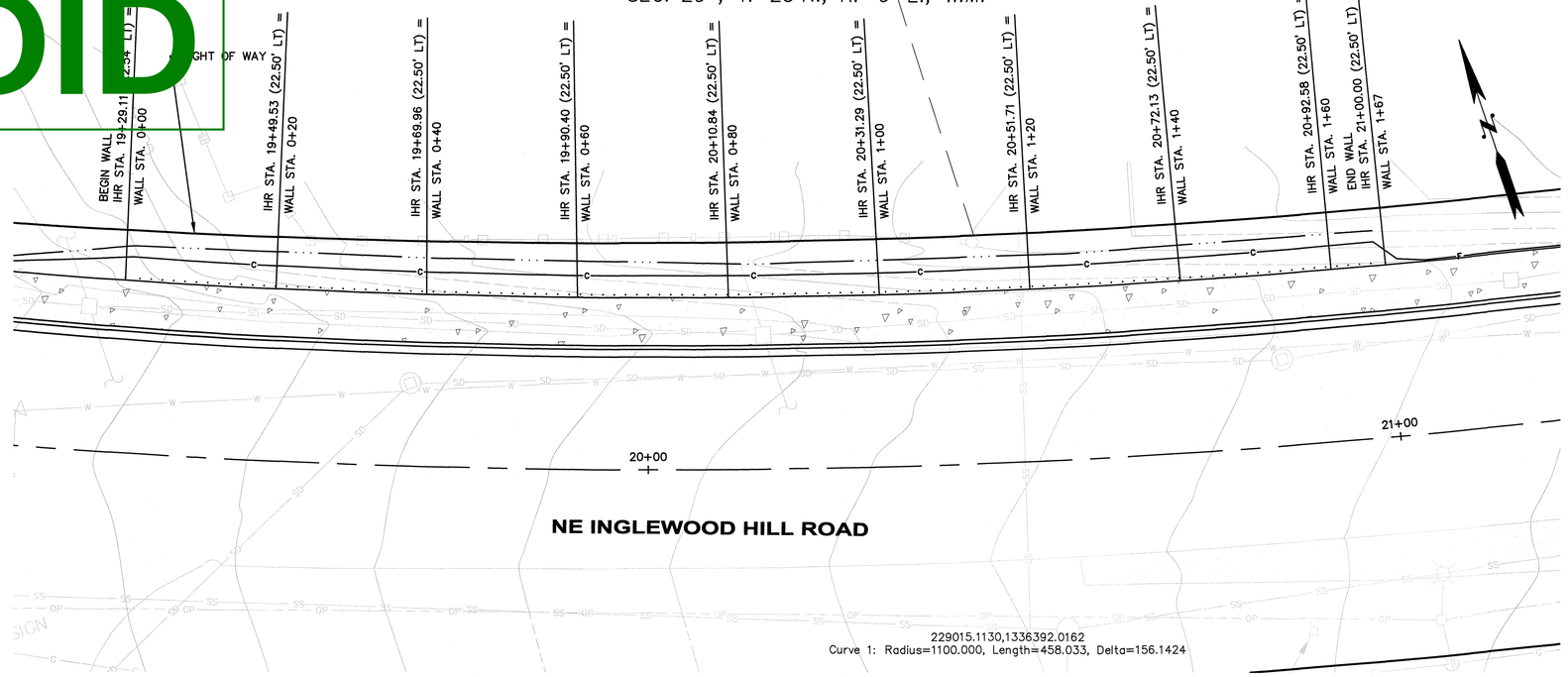

WALL 1 PLAN

SCALE: 1"=10'

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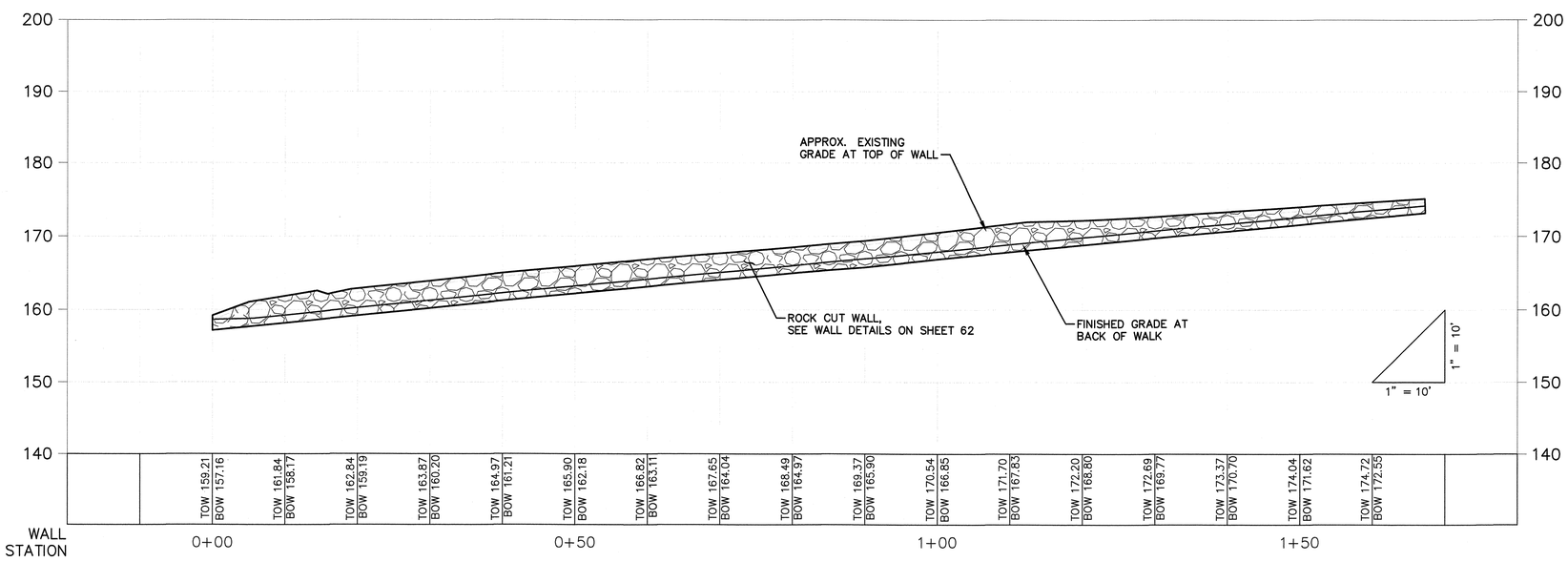
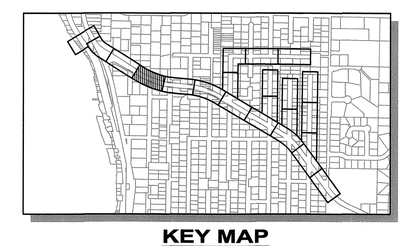


WALL 1 PROFILE

HORIZ. SCALE: 1"=10'
VERT. SCALE: 1"=10'

SCALE: 1" = 10'

0 10 20 30



KEY MAP

SCALE: 1"=1000'

811 Know what's below. Call before you dig.

ERIK O. ANDERSEN — STATE OF WASHINGTON — 36468 — REGISTERED PROFESSIONAL ENGINEER

March 9, 2016

SCALE BARS INDICATE SCALE OF FULL-SIZE (22 X 34 INCH) DRAWINGS. FOR REDUCED SIZE DRAWINGS ADJUST SCALE ACCORDINGLY.

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INGLEWOOD HILL STORMWATER AND NON-MOTORIZED IMPROVEMENTS
WALL PLAN AND PROFILE
WALL 1

10-140008
OCI PROJECT NO.

54 SHEET OF 89

PLOTTING DATE: 3/8/2016 USER: Richard Herrmann NAME: P:\10-140008 Inglewood Drainage\3 CADD\Sheets\P_10-140008_WRP.dwg

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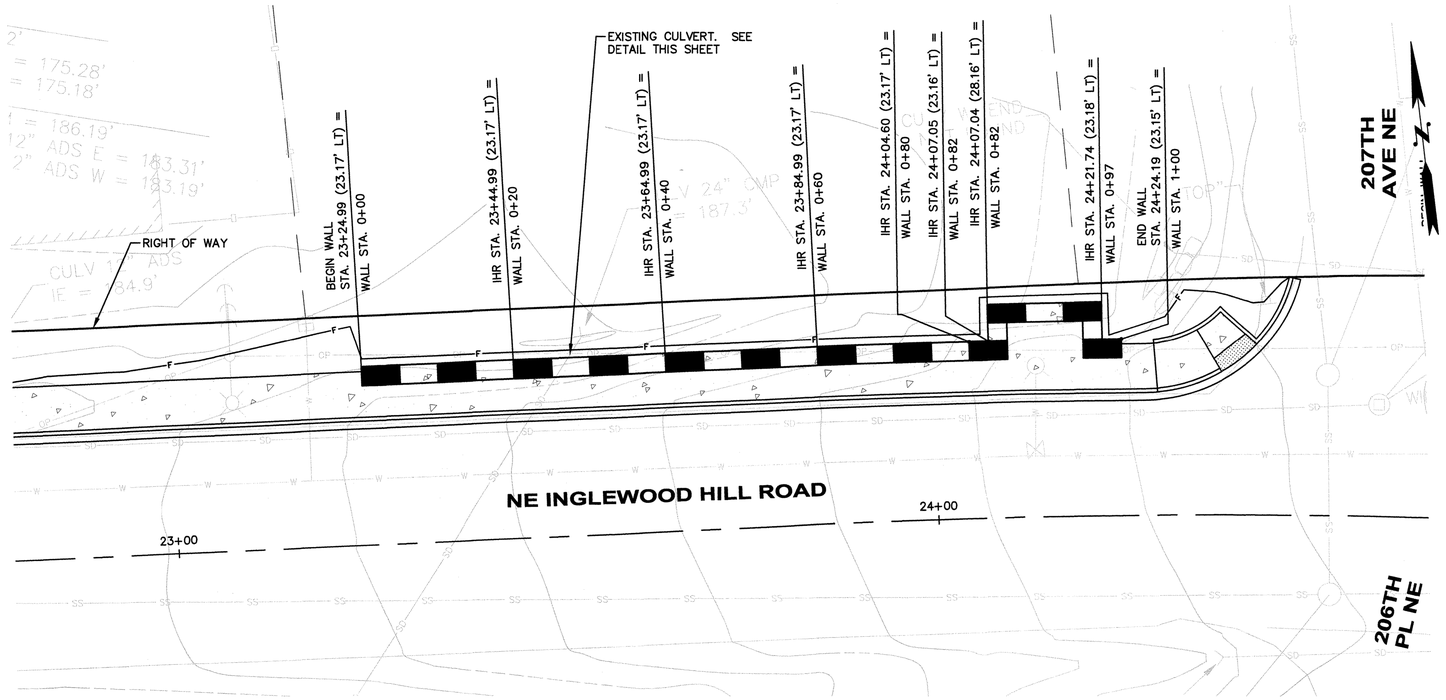

WALL 2 PLAN

SCALE: 1"=10'

GENERAL NOTES:

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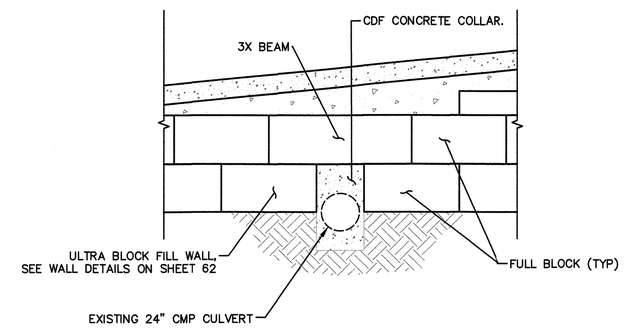
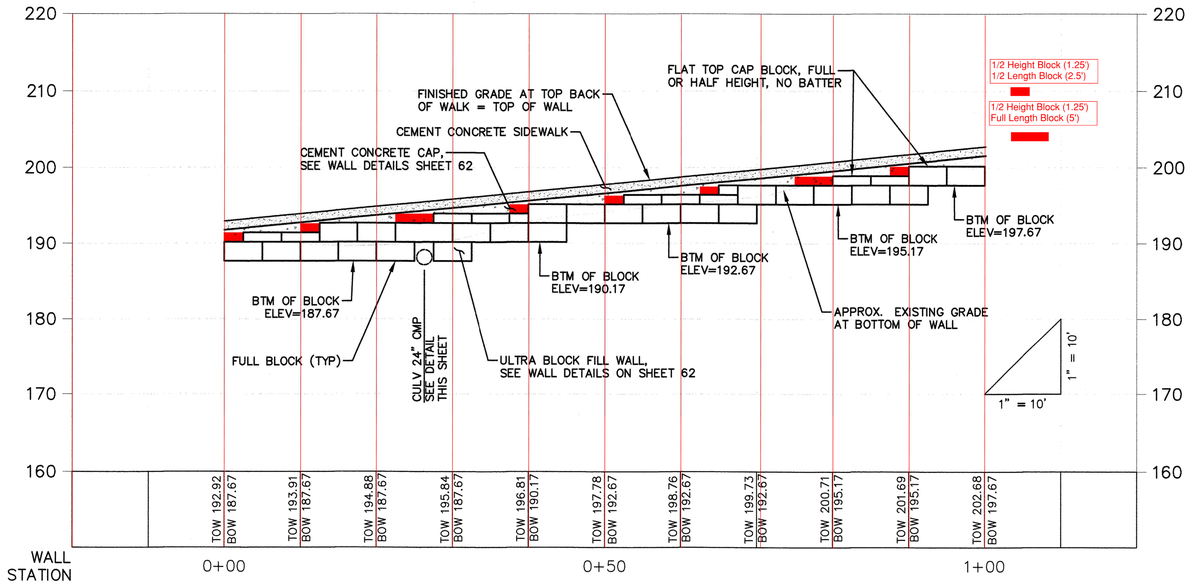


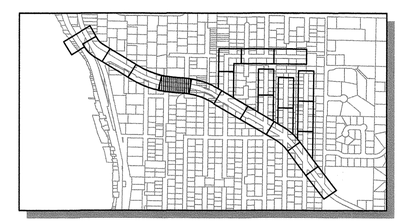
EXISTING CULVERT DETAIL

N.T.S.



WALL 2 PROFILE

HORIZ. SCALE: 1"=10'
VERT. SCALE: 1"=10'



KEY MAP

SCALE: 1"=1000'

SCALE: 1" = 10'
0 10 20 30

Know what's below. Call before you dig.

ERIK O. ANDERSEN STATE OF WASHINGTON 36468 REGISTERED PROFESSIONAL ENGINEER
March 9, 2016

SCALE BARS INDICATE SCALE OF FULL-SIZE (22 X 34 INCH) DRAWINGS. FOR REDUCED SIZE DRAWINGS ADJUST SCALE ACCORDINGLY.

NO.	DATE	BY	CKD.	REVISION

City of Sammamish

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DATE: FEB. 2016

INGLEWOOD HILL STORMWATER AND NON-MOTORIZED IMPROVEMENTS
WALL PLAN AND PROFILE
WALL 2

10-140008
OCI PROJECT NO.

SHEET 55 OF 89

PLOTTING DATE: 3/8/2016 USER: Richard Herrmann NAME: P:\10-140008 Inglewood Drainage\3 CADD\Sheets\P_10-140008_WPP.dwg

VOID

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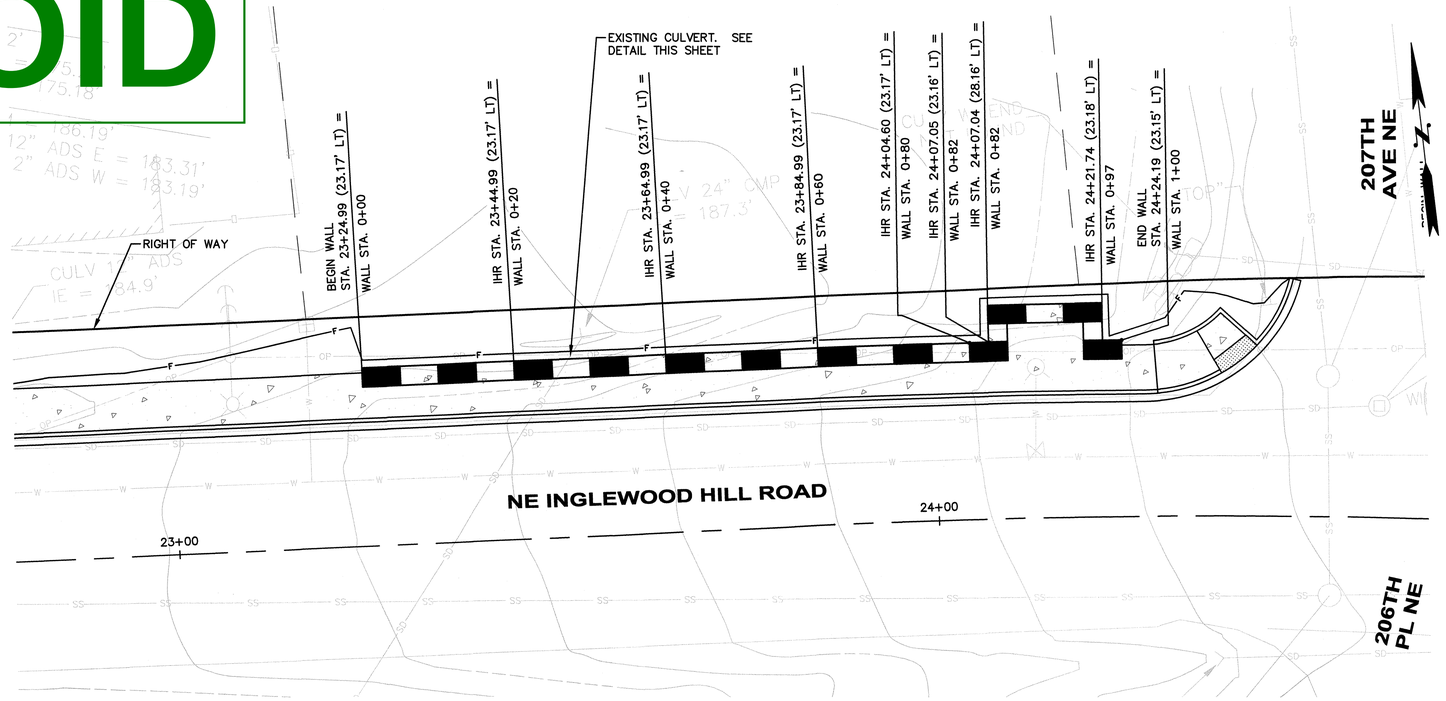

WALL 2 PLAN

SCALE: 1"=10'

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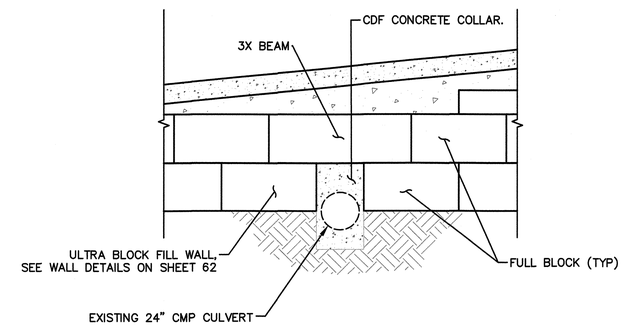
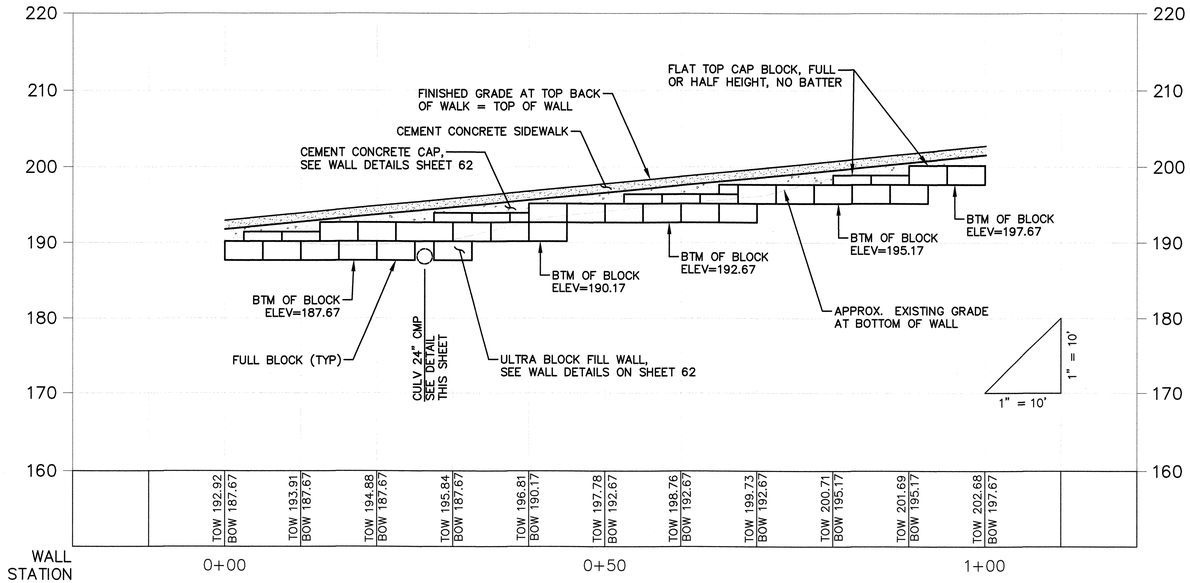


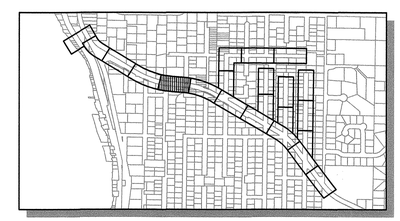
EXISTING CULVERT DETAIL

N.T.S.



WALL 2 PROFILE

HORIZ. SCALE: 1"=10'
VERT. SCALE: 1"=10'



KEY MAP

SCALE: 1"=1000'

SCALE: 1" = 10'
0 10 20 30

Know what's below. Call before you dig.

ERIK O. ANDERSEN STATE OF WASHINGTON 36468 REGISTERED PROFESSIONAL ENGINEER
March 9, 2016

SCALE BARS INDICATE SCALE OF FULL-SIZE (22 X 34 INCH) DRAWINGS. FOR REDUCED SIZE DRAWINGS ADJUST SCALE ACCORDINGLY.

NO.	DATE	BY	CKD.	REVISION

City of Sammamish

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Bellevue, WA. 98004 Fax (425) 451-4901

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CHECKED BY: LAT
DATE: FEB. 2016

INGLEWOOD HILL STORMWATER AND NON-MOTORIZED IMPROVEMENTS
WALL PLAN AND PROFILE
WALL 2

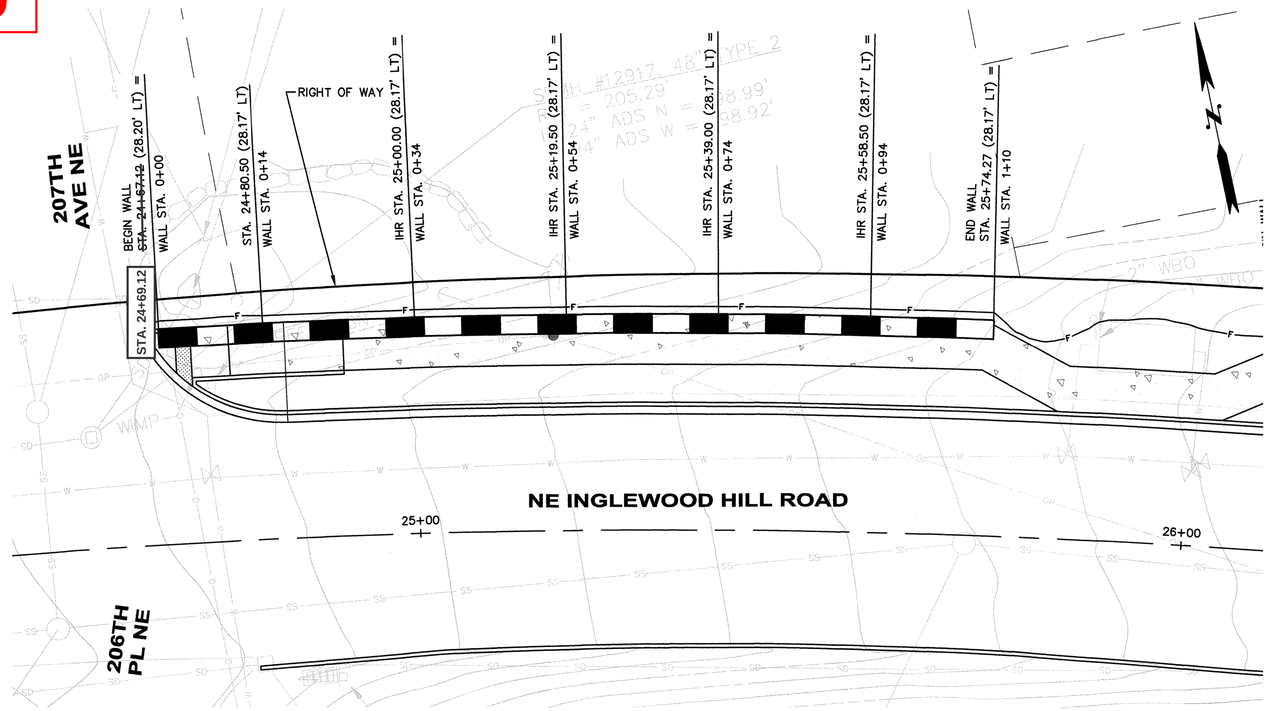
10-140008
OCI PROJECT NO.

SHEET 55 OF 89

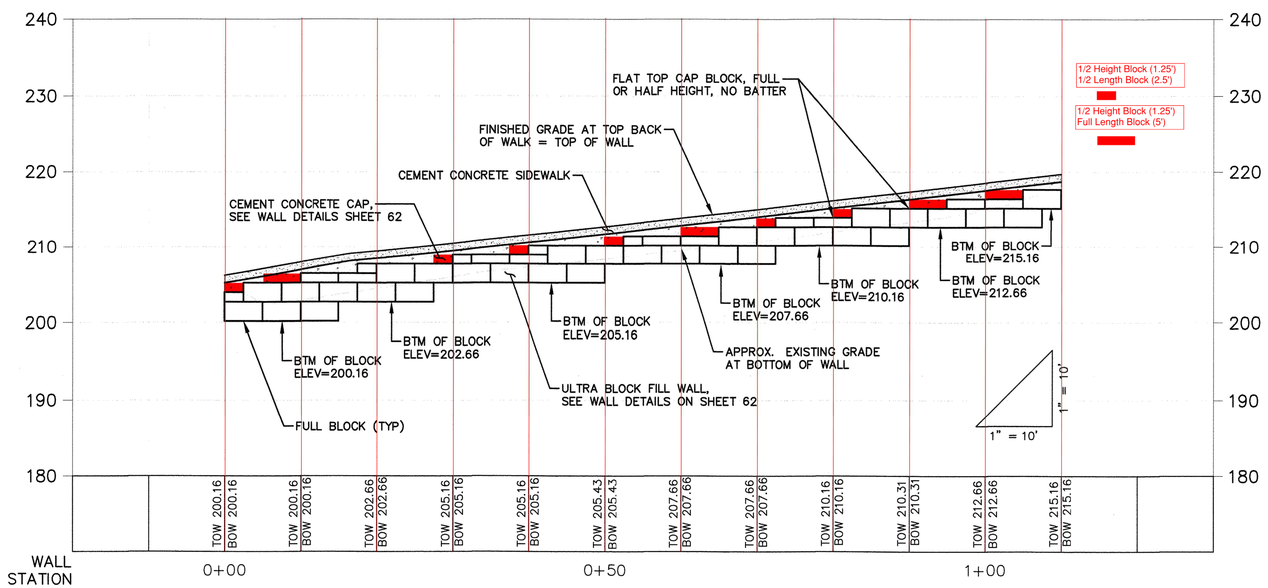
PLOTTING DATE: 3/8/2016 USER: Richard Herrmann NAME: P:\10-140008 Inglewood Drainage\3 CADD\Sheets\P_10-140008_WPP.dwg

FWD 009

SEC. 29 , T. 25 N., R. 6 E., W.M.



WALL 3 PLAN
SCALE: 1"=10'



WALL 3 PROFILE
HORIZ. SCALE: 1"=10'
VERT. SCALE: 1"=10'

GENERAL NOTES:

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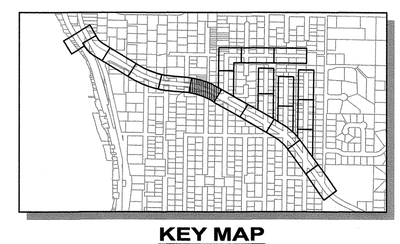

KEY MAP
SCALE: 1"=1000'

SCALE: 1" = 10'
0 10 20 30

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ERIK O. ANDERSEN STATE OF WASHINGTON 36468 REGISTERED PROFESSIONAL ENGINEER
March 9, 2016

SCALE BARS INDICATE SCALE OF FULL-SIZE (22 X 34 INCH) DRAWINGS. FOR REDUCED SIZE DRAWINGS ADJUST SCALE ACCORDINGLY.

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INGLEWOOD HILL STORMWATER AND NON-MOTORIZED IMPROVEMENTS
WALL PLAN AND PROFILE
WALL 3

10-140008
OCI PROJECT NO.

SHEET 56 OF 89

PLOTTING DATE: 3/8/2016 USER: Richard Herrmann NAME: P:\10-140008 Inglewood Drainage\3 CADD\Sheets\P_10-140008_WPP.dwg

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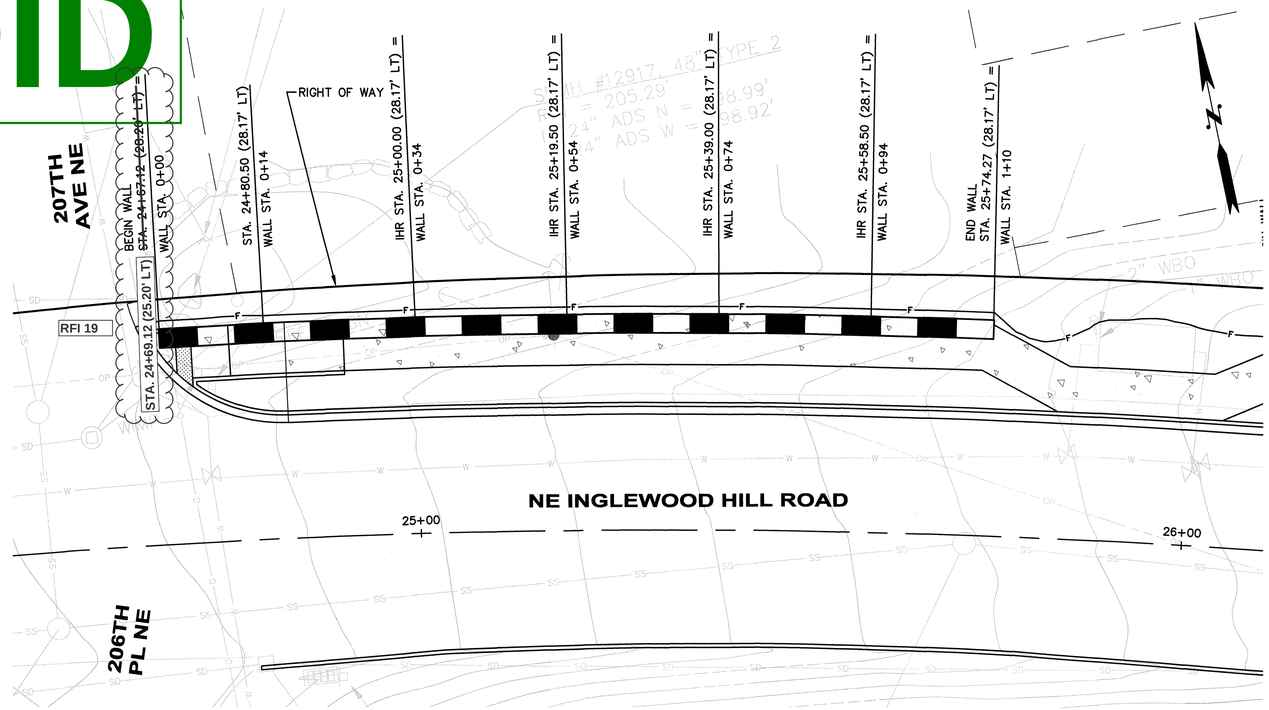
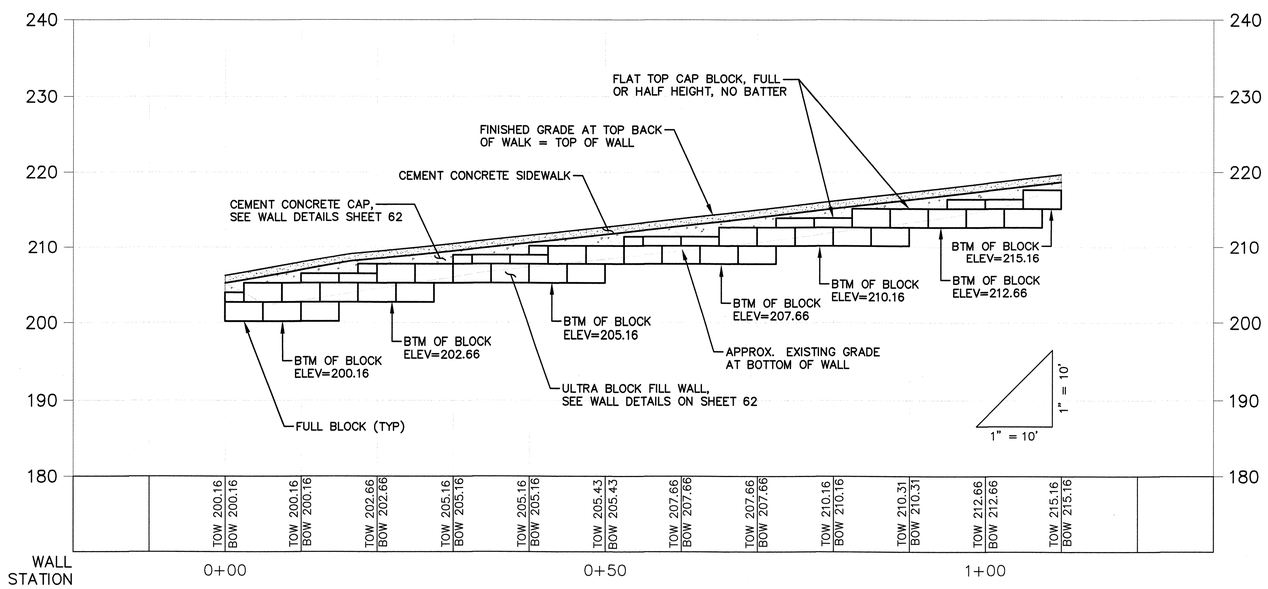
SEC. 29 , T. 25 N., R. 6 E., W.M.



WALL 3 PLAN
SCALE: 1"=10'



WALL 3 PROFILE
HORIZ. SCALE: 1"=10'
VERT. SCALE: 1"=10'

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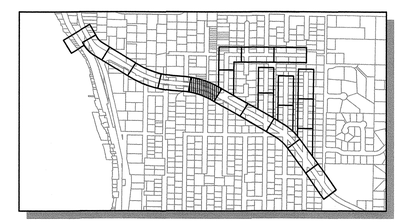

KEY MAP
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SCALE: 1" = 10'
0 10 20 30

811
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ERIK O. ANDERSEN
STATE OF WASHINGTON
36468
REGISTERED PROFESSIONAL ENGINEER
March 9, 2016

SCALE BARS INDICATE SCALE OF FULL-SIZE (22 X 34 INCH) DRAWINGS. FOR REDUCED SIZE DRAWINGS ADJUST SCALE ACCORDINGLY.

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INGLEWOOD HILL STORMWATER AND NON-MOTORIZED IMPROVEMENTS
WALL PLAN AND PROFILE
WALL 3

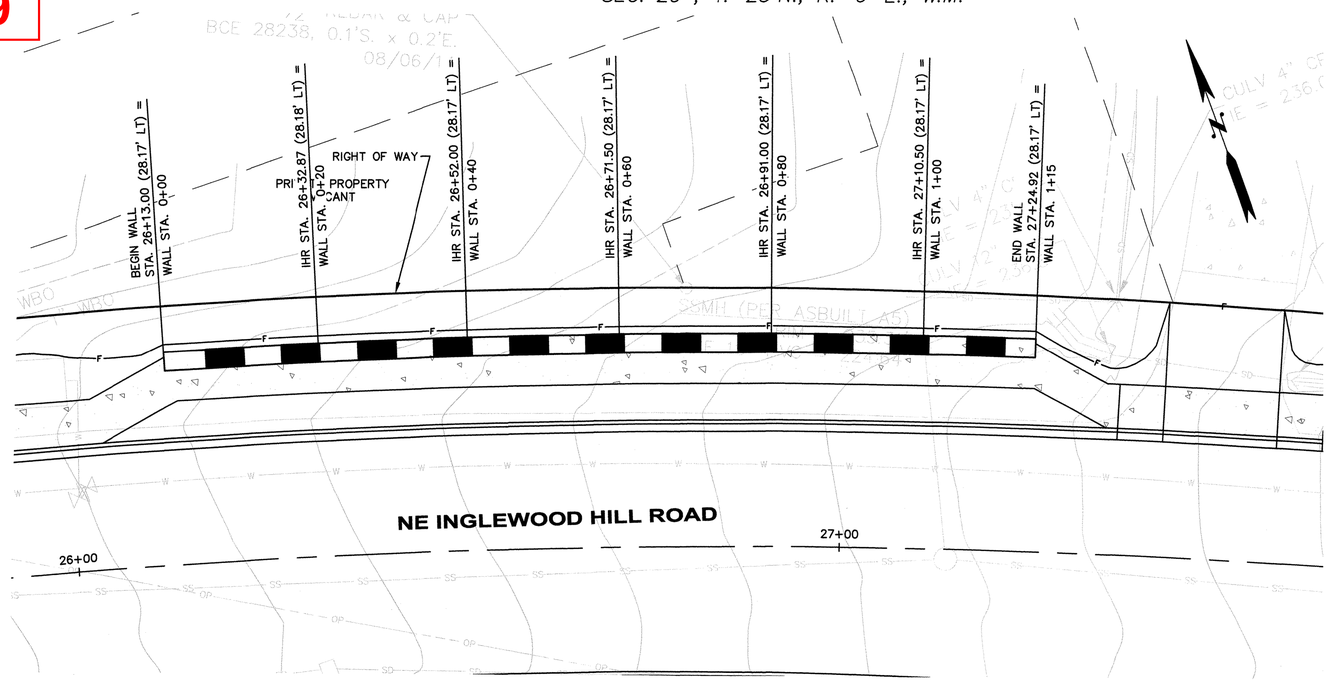
10-140008
OCI PROJECT NO.

56 SHEET OF 89

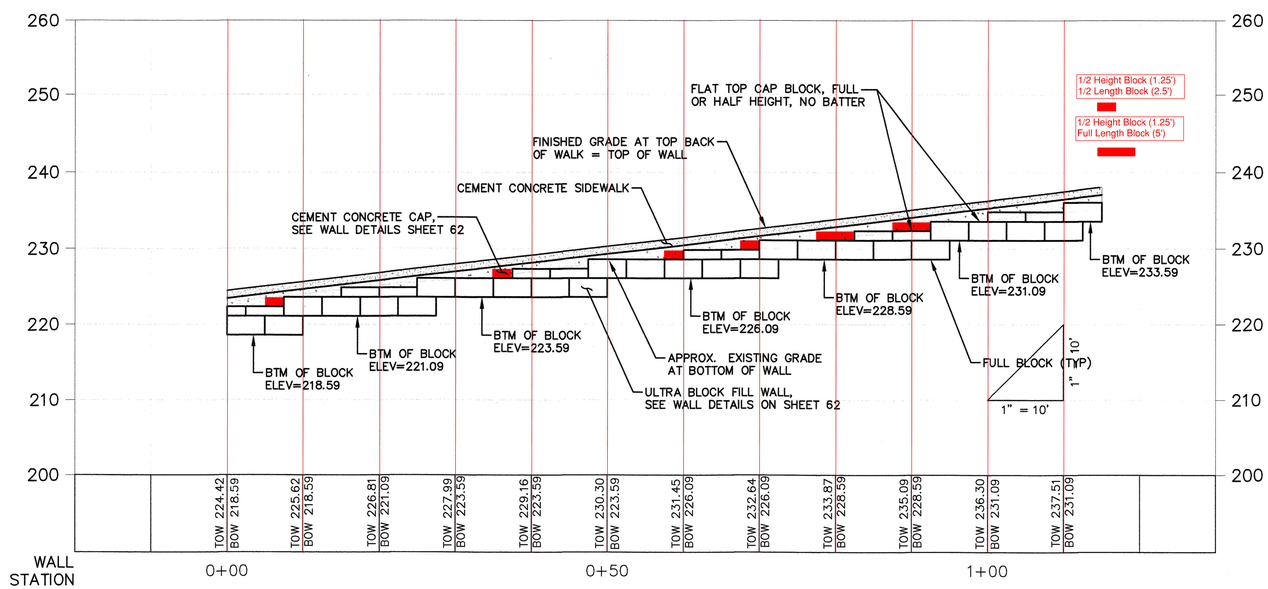
PLOTTING DATE: 3/8/2016 USER: Richard Herrmann NAME: P:\10-140008 Inglewood Drainage\3 CADD\Sheets\P_10-140008_WPP.dwg

FWD 009

SEC. 29 , T. 25 N., R. 6 E., W.M.



WALL 4 PLAN
SCALE: 1"=10'



STA. 26+15 TO 27+40
WALL 4 PROFILE
HORIZ. SCALE: 1"=10'
VERT. SCALE: 1"=10'

SCALE: 1" = 10'
0 10 20 30

GENERAL NOTES:

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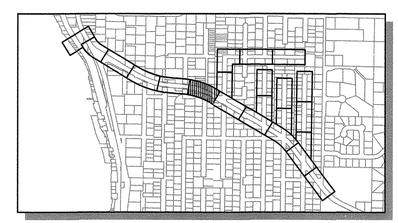

KEY MAP
SCALE: 1"=1000'

811
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STATE OF WASHINGTON
36468
REGISTERED
PROFESSIONAL ENGINEER
March 9, 2016

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INGLEWOOD HILL STORMWATER AND NON-MOTORIZED IMPROVEMENTS
WALL PLAN AND PROFILE
WALL 4

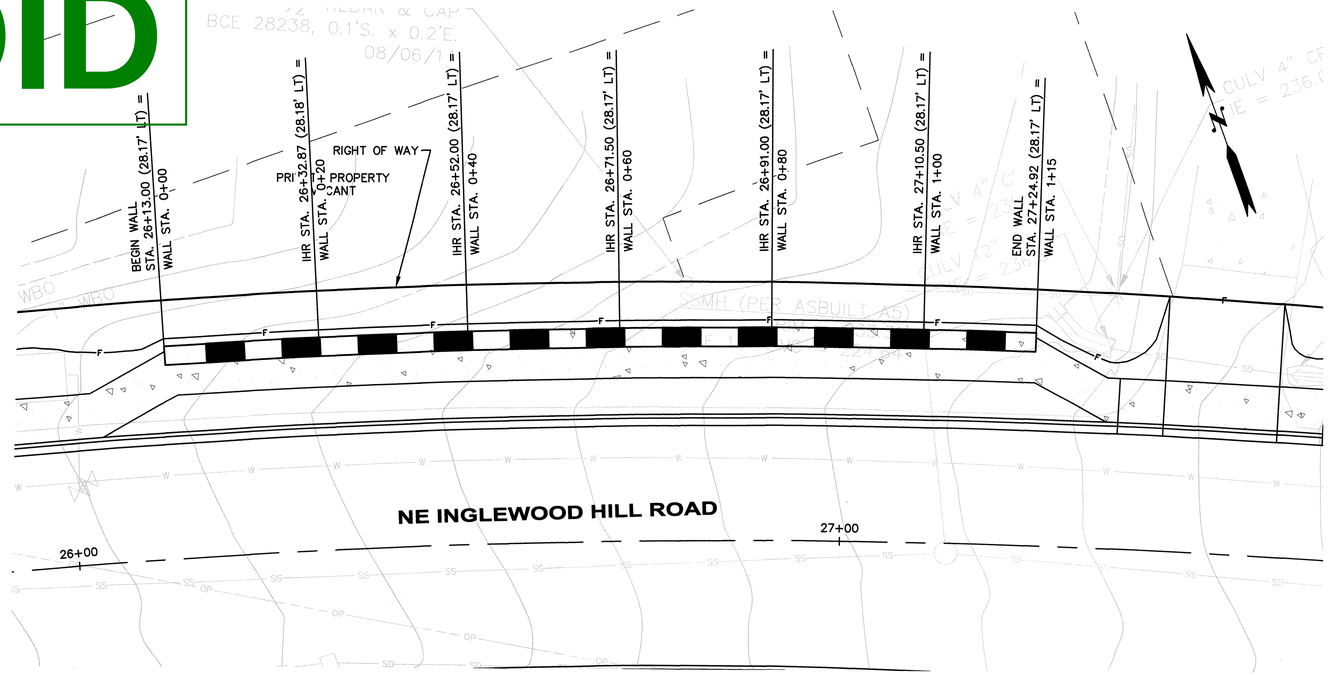
10-140008
OCI PROJECT NO.

57 SHEET OF 89

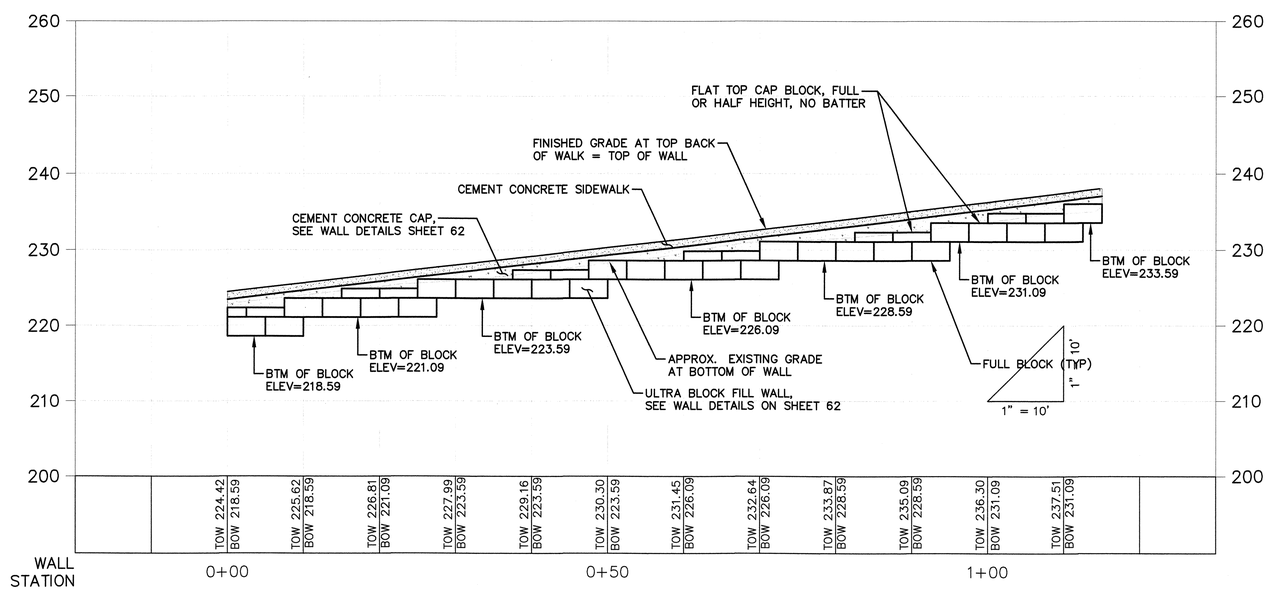
PLOTTING DATE: 3/9/2016 USER: Richard Herrmann NAME: P:\10-140008 Inglewood Drainage\3 CADD\Sheets\P_10-140008_WPP.dwg

VOID

SEC. 29 , T. 25 N., R. 6 E., W.M.



WALL 4 PLAN
SCALE: 1"=10'

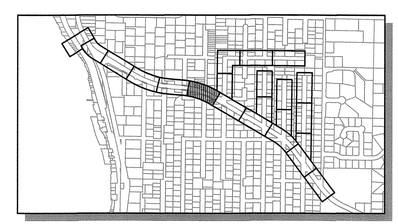


STA. 26+15 TO 27+40
WALL 4 PROFILE
HORIZ. SCALE: 1"=10'
VERT. SCALE: 1"=10'

SCALE: 1" = 10'
0 10 20 30

GENERAL NOTES:

1. WALL PROFILES ARE TYPICAL ONLY. CONTRACTOR SHALL VERIFY AND ADJUST ROCK OR BLOCK LAYOUT AS REQUIRED. CONTRACTOR SHALL COORDINATE WITH ENGINEER.



KEY MAP
SCALE: 1"=1000'

811
Know what's below.
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ERIK O. ANDERSEN
STATE OF WASHINGTON
36468
REGISTERED
PROFESSIONAL ENGINEER
March 9, 2016

SCALE BARS INDICATE SCALE OF FULL-SIZE (22 X 34 INCH) DRAWINGS. FOR REDUCED SIZE DRAWINGS ADJUST SCALE ACCORDINGLY.

NO.	DATE	BY	CKD.	REVISION

City of Sammamish

OSBORN CONSULTING INCORPORATED
OSBORN CONSULTING, INC.
1800 112th Ave. NE, Suite 220E Ph (425) 451-4009
Bellevue, WA. 98004 Fax (425) 451-4901

DESIGNED BY: LCR
DRAWN BY: RDH
CHECKED BY: LAT
DATE: FEB. 2016

INGLEWOOD HILL STORMWATER AND NON-MOTORIZED IMPROVEMENTS
WALL PLAN AND PROFILE
WALL 4

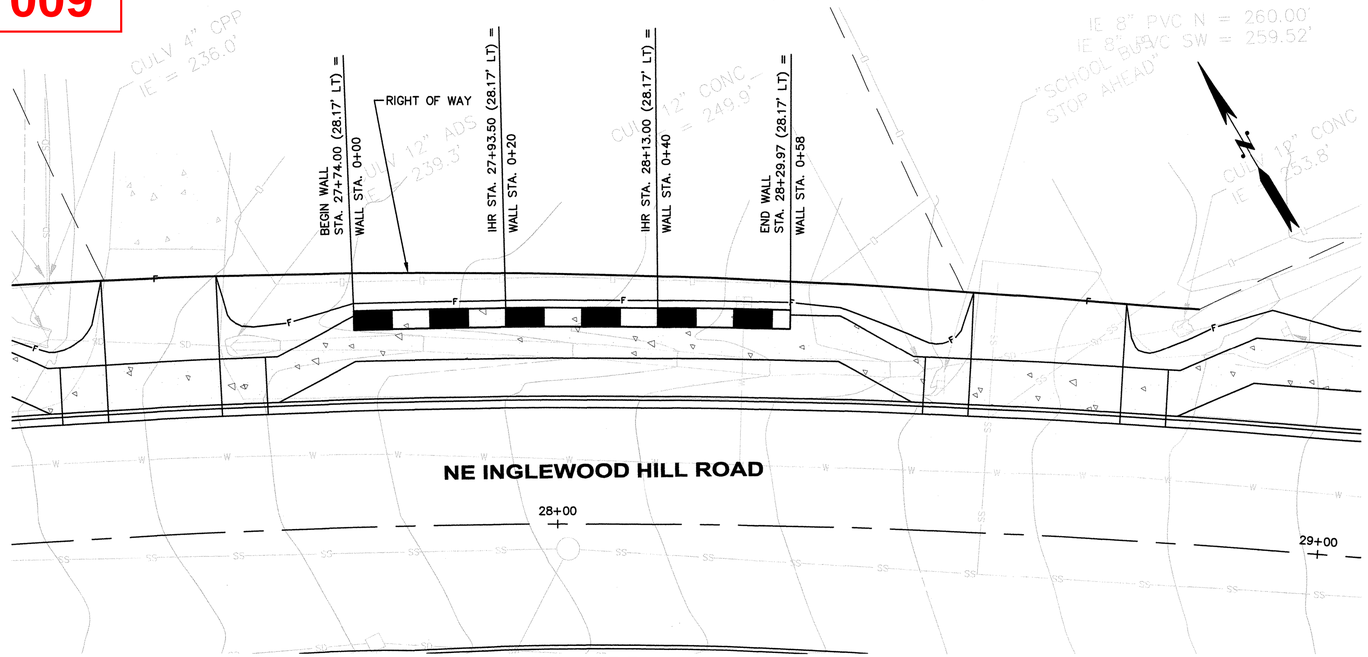
10-140008
OCI PROJECT NO.

57 SHEET OF 89

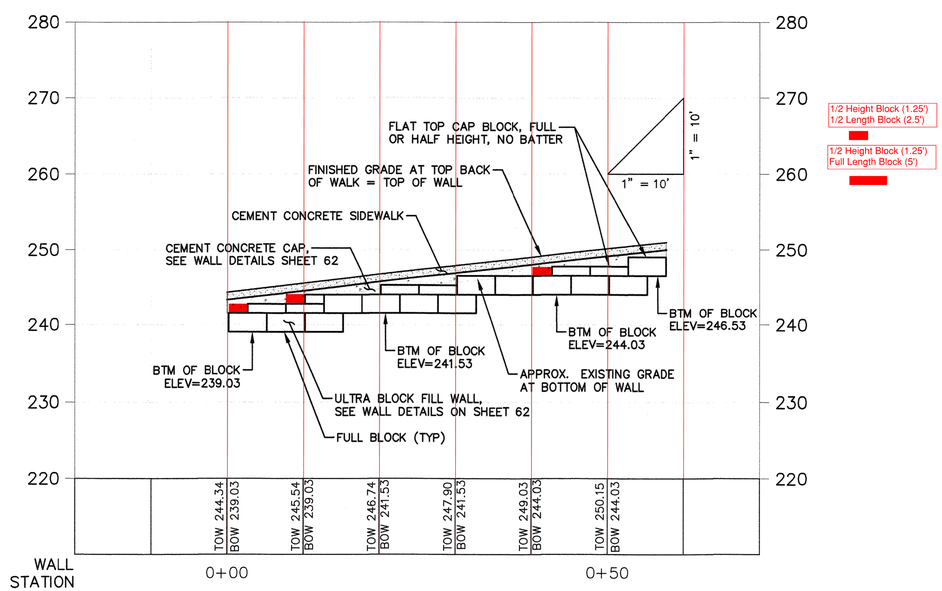
PLOTTING DATE: 3/8/2016 USER: Richard Herrmann NAME: P:\10-140008 Inglewood Drainage\3 CADD\Sheets\P_10-140008_WPP.dwg

FWD 009

SEC. 29 , T. 25 N., R. 6 E., W.M.



WALL 5 PLAN
SCALE: 1"=10'



1/2 Height Block (1.25')
1/2 Length Block (2.5')

1/2 Height Block (1.25')
Full Length Block (5')

WALL 5 PROFILE
HORIZ. SCALE: 1"=10'
VERT. SCALE: 1"=10'

GENERAL NOTES:

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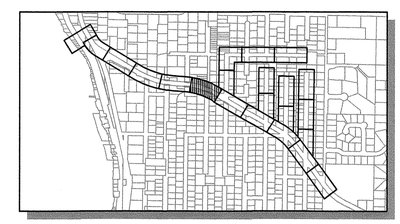

KEY MAP
SCALE: 1"=1000'

SCALE: 1" = 10'
0 10 20 30

Know what's below.
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ERIK O. ANDERSEN
STATE OF WASHINGTON
36462
REGISTERED PROFESSIONAL ENGINEER
March 9, 2016

SCALE BARS INDICATE SCALE OF FULL-SIZE (22 X 34 INCH) DRAWINGS. FOR REDUCED SIZE DRAWINGS ADJUST SCALE ACCORDINGLY.

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City of Sammamish

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INGLEWOOD HILL STORMWATER AND NON-MOTORIZED IMPROVEMENTS
WALL PLAN AND PROFILE
WALL 5

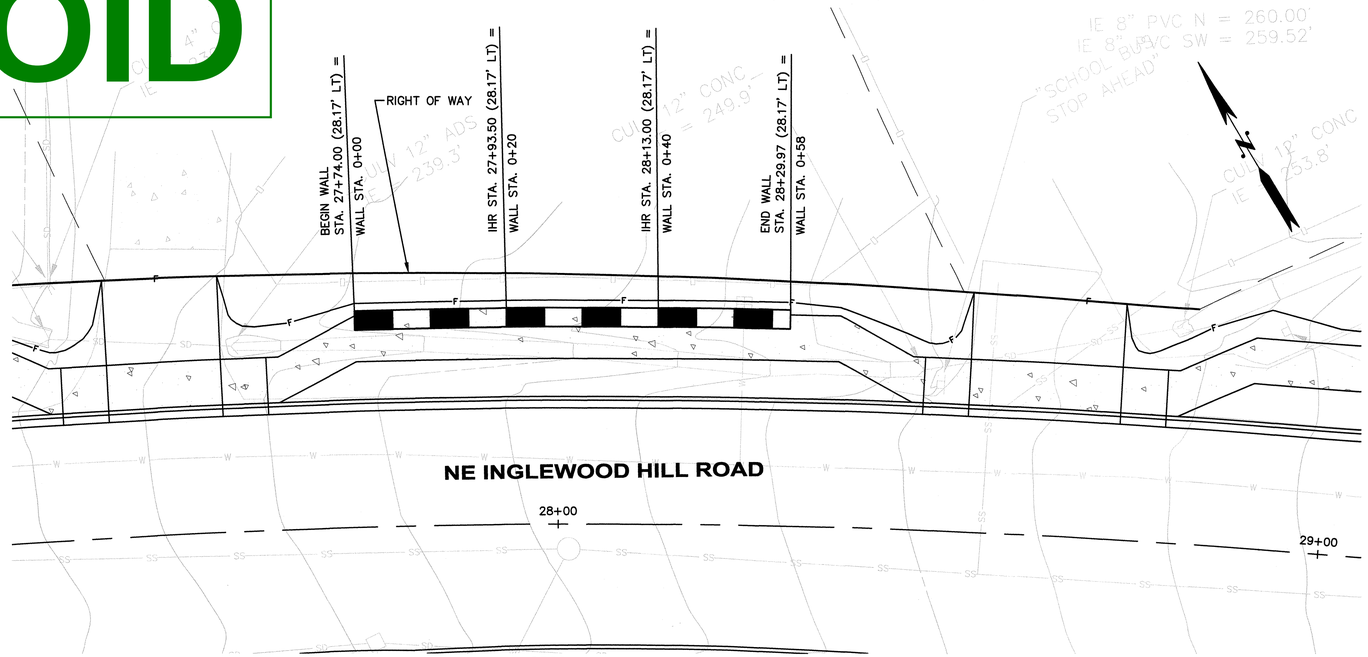
10-140008
OCI PROJECT NO.

58 SHEET OF 89

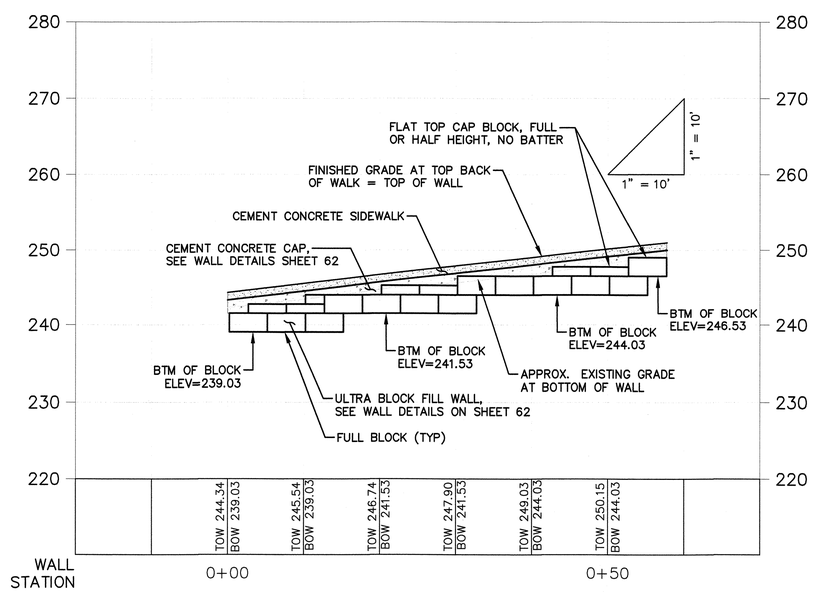
PLOTTING DATE: 3/8/2016 USER: Richard Herrmann FILE NAME: P:\10-140008 Inglewood Drainage\3 CADD\Sheets\P_10-140008_WPP.dwg

VOID

SEC. 29 , T. 25 N., R. 6 E., W.M.



WALL 5 PLAN
SCALE: 1"=10'



WALL 5 PROFILE
HORIZ. SCALE: 1"=10'
VERT. SCALE: 1"=10'

GENERAL NOTES:

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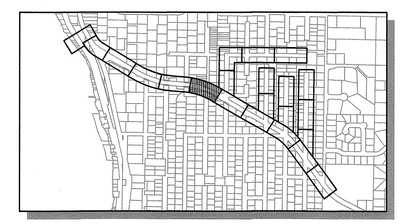

KEY MAP
SCALE: 1"=1000'

SCALE: 1" = 10'
0 10 20 30

811
Know what's below.
Call before you dig.

ERIK O. ANDERSEN
STATE OF WASHINGTON
36460
REGISTERED PROFESSIONAL ENGINEER
March 9, 2016

SCALE BARS INDICATE SCALE OF FULL-SIZE (22 X 34 INCH) DRAWINGS. FOR REDUCED SIZE DRAWINGS ADJUST SCALE ACCORDINGLY.

NO.	DATE	BY	CKD.	REVISION

City of Sammamish

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DATE: FEB. 2016

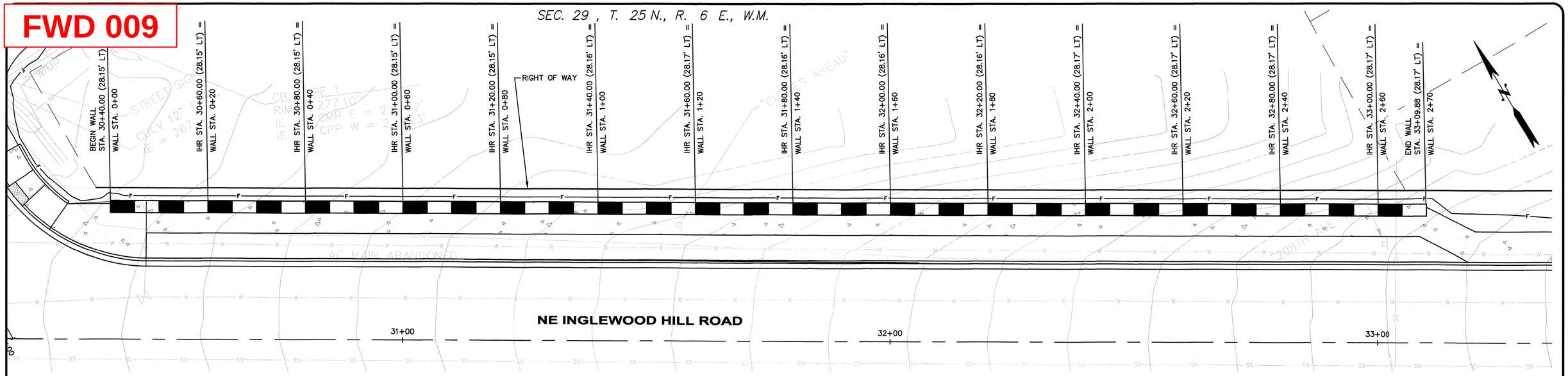
INGLEWOOD HILL STORMWATER AND NON-MOTORIZED IMPROVEMENTS
WALL PLAN AND PROFILE
WALL 5

10-140008
OCI PROJECT NO.

SHEET 58 OF 89

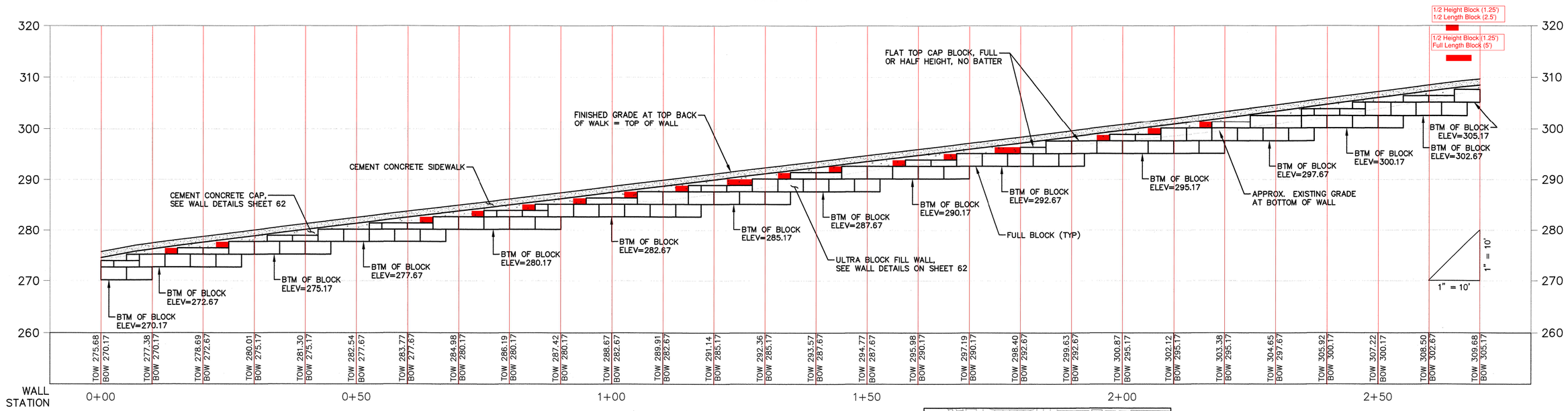
PLOTTING DATE: 3/8/2016 USER: Richard Herrn@BE NAME: P:\10-140008 Inglewood Drainage\3 CADD\Sheets\P_10-140008_WPP.dwg

FWD 009



WALL 6 PLAN

SCALE: 1"=10'



WALL 6 PROFILE

HORIZ. SCALE: 1"=10'
VERT. SCALE: 1"=10'

GENERAL NOTES:

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KEY MAP

SCALE: 1"=1000'

811 Know what's below. Call before you dig.

ERIK O. ANDERSON, STATE OF WASHINGTON, 36468, REGISTERED PROFESSIONAL ENGINEER
March 9, 16

SCALE BARS INDICATE SCALE OF FULL-SIZE (22 X 34 INCH) DRAWINGS. FOR REDUCED SIZE DRAWINGS ADJUST SCALE ACCORDINGLY.

NO.	DATE	BY	CKD.	REVISION

City of Sammamish

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INGLEWOOD HILL STORMWATER AND NON-MOTORIZED IMPROVEMENTS
WALL PLAN AND PROFILE
WALL 6

10-140008
OCI PROJECT NO.

SHEET 59 OF 89

PLOTTING DATE: 3/8/2016 USER: Richard Herrmann NAME: P:\10-140008 Inglewood Drainage\3 CADD\Sheets\P_10-140008_WPP.dwg

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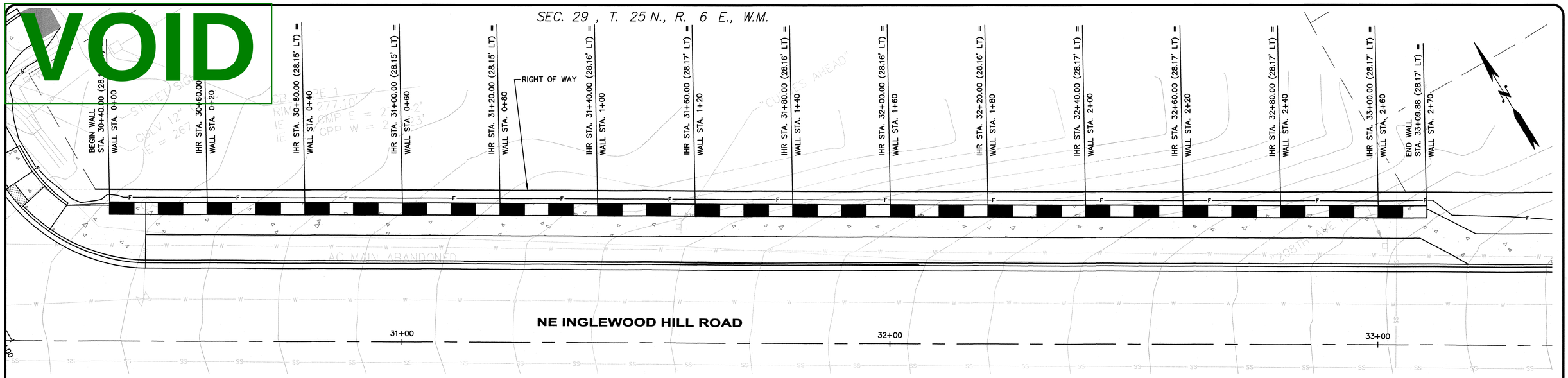
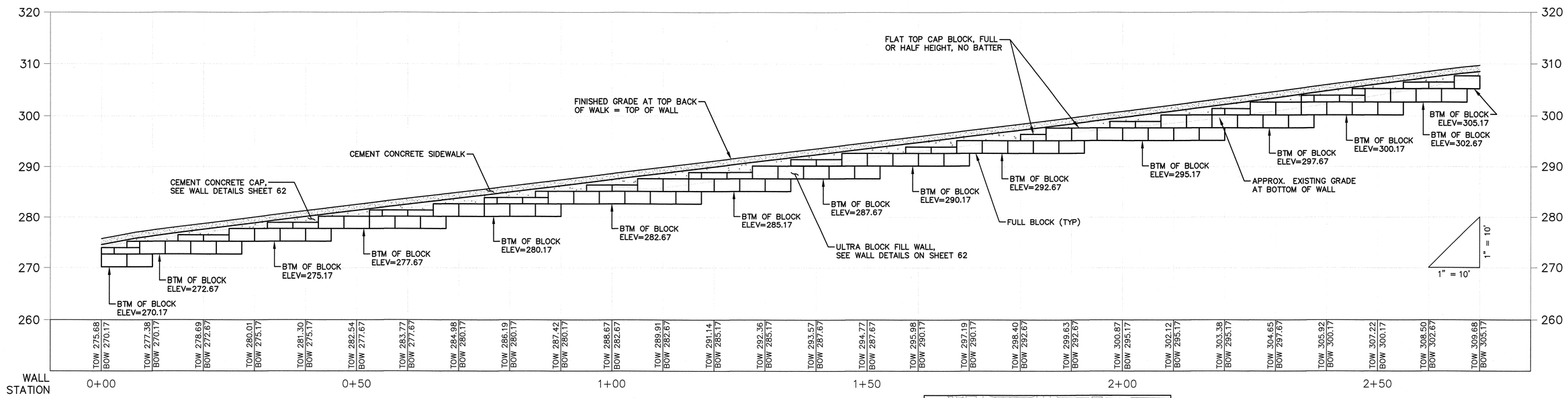


WALL 6 PLAN
SCALE: 1"=10'



WALL 6 PROFILE
HORIZ. SCALE: 1"=10'
VERT. SCALE: 1"=10'

GENERAL NOTES:

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KEY MAP
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STATE OF WASHINGTON
36468
REGISTERED
PROFESSIONAL ENGINEER
March 9, 16

SCALE BARS INDICATE SCALE OF FULL-SIZE (22 X 34 INCH) DRAWINGS. FOR REDUCED SIZE DRAWINGS ADJUST SCALE ACCORDINGLY.

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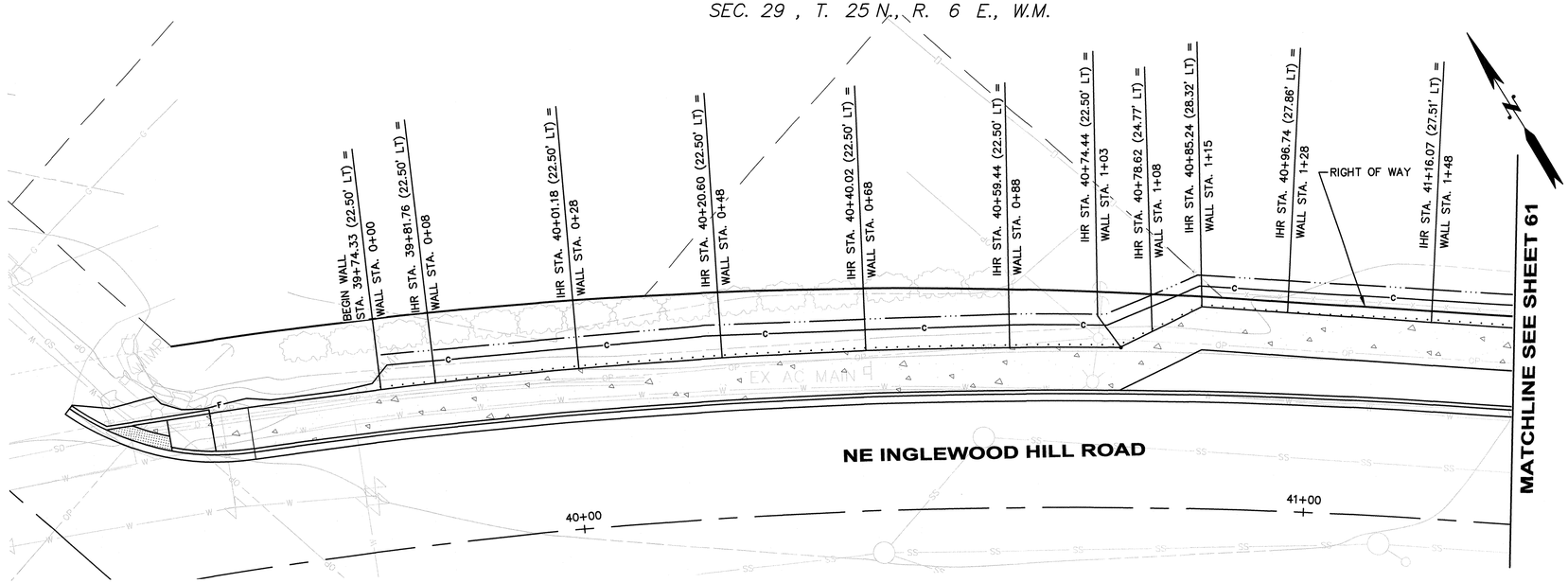
INGLEWOOD HILL STORMWATER AND NON-MOTORIZED IMPROVEMENTS
WALL PLAN AND PROFILE
WALL 6

10-140008
OCI PROJECT NO.

SHEET 59 OF 89

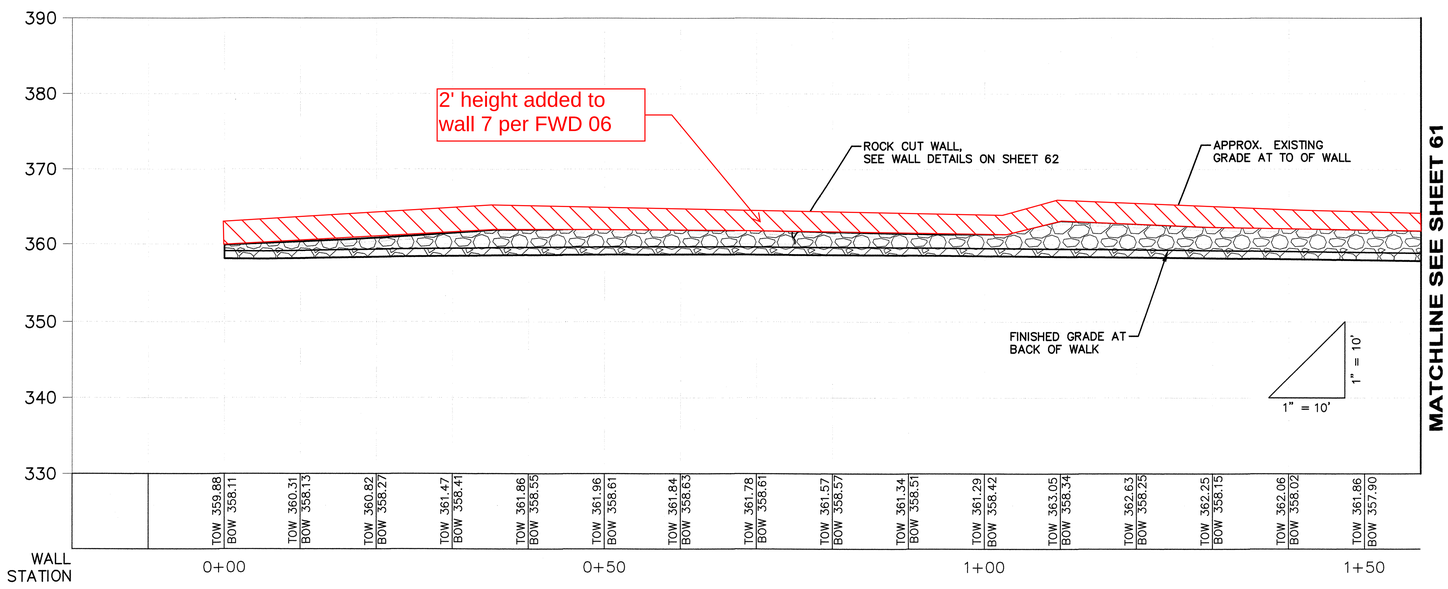
PLOTTING DATE: 3/8/2016 USER: Richard Herrmf8iE NAME: P:\10-140008 Inglewood Drainage\3 CADD\Sheets\P_10-140008_WPP.dwg

SEC. 29 , T. 25 N., R. 6 E., W.M.



WALL 7 PLAN

SCALE: 1"=10'



WALL 7 PROFILE

HORIZ. SCALE: 1"=10'
VERT. SCALE: 1"=10'

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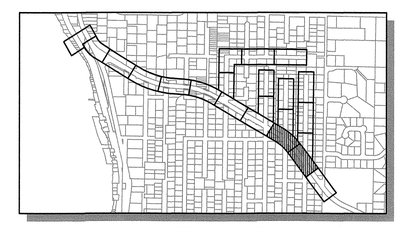

KEY MAP

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March 9, 2016

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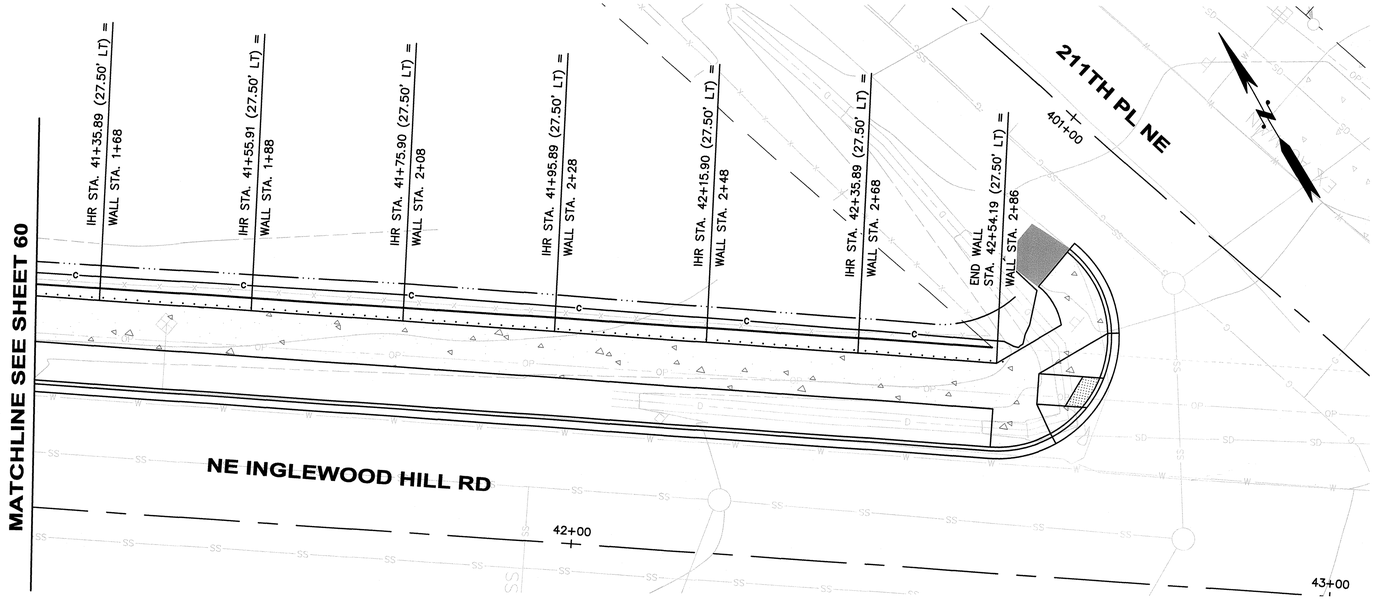
INGLEWOOD HILL STORMWATER AND NON-MOTORIZED IMPROVEMENTS
WALL PLAN AND PROFILE
WALL 7

10-140008
OCI PROJECT NO.

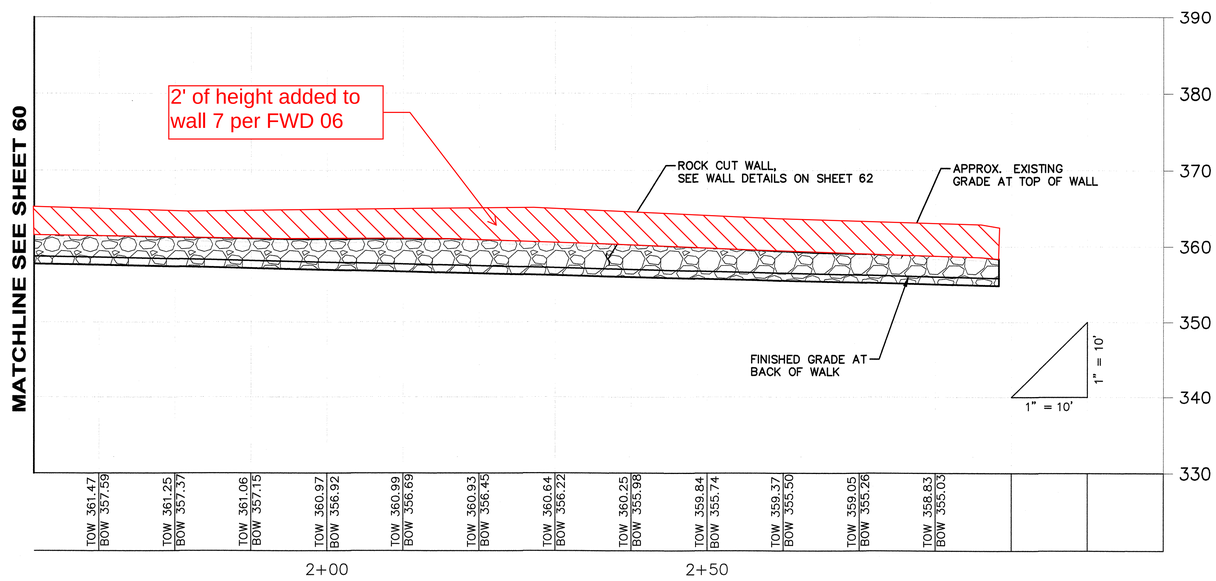
SHEET 60 OF 89

PLOTTING DATE: 3/8/2016 USER: Richard Herrmann NAME: P:\10-140008 Inglewood Drainage\3 CADD\Sheets\P_10-140008_WPP.dwg

SEC. 29 , T. 25 N., R. 6 E., W.M.



WALL 7 PLAN
SCALE: 1"=10'



WALL 7 PROFILE
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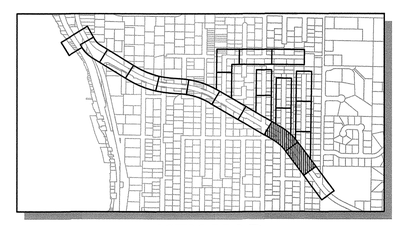

KEY MAP
SCALE: 1"=1000'

811 Know what's below. Call before you dig.

ERIK O. ANDERSEN, STATE OF WASHINGTON, 36468, REGISTERED PROFESSIONAL ENGINEER
March 9, 2016

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CHECKED BY: LAT
DATE: FEB. 2016

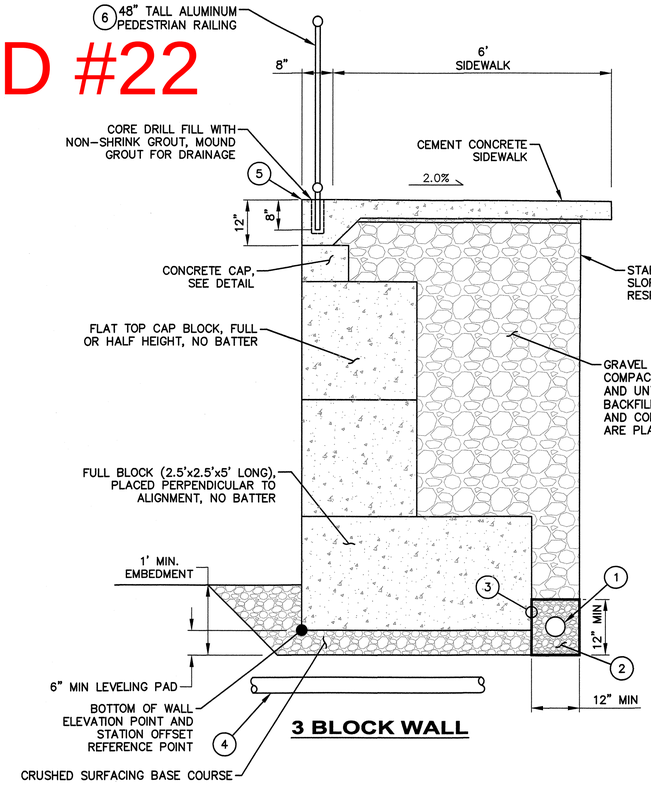
INGLEWOOD HILL STORMWATER AND NON-MOTORIZED IMPROVEMENTS
WALL PLAN AND PROFILE
WALL 7 (CONT.)

10-140008
OCI PROJECT NO.

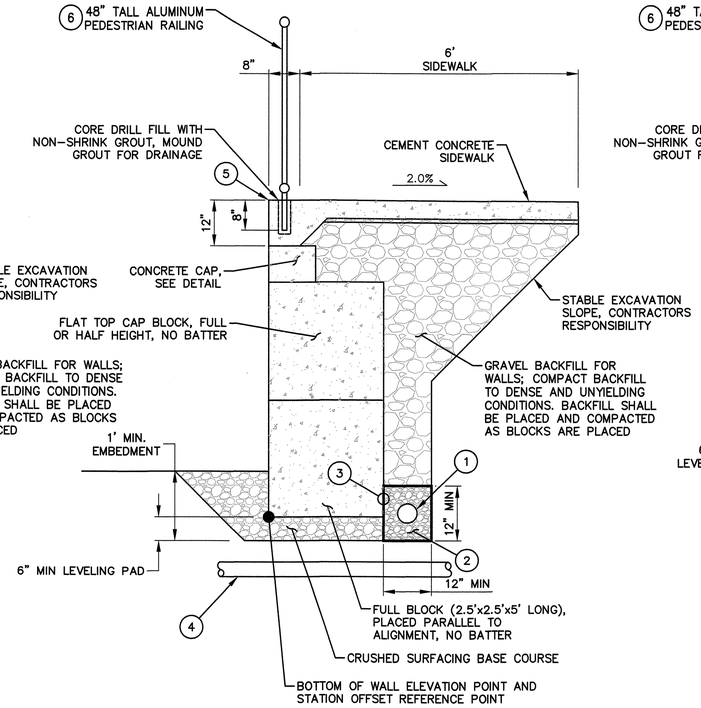
61 SHEET OF 89

PLOTTING DATE: 3/8/2016 USER: Richard HermBbE NAME: P:\10-140008 Inglewood Drainage\3 CADD\Sheets\P_10-140008_WPP.dwg

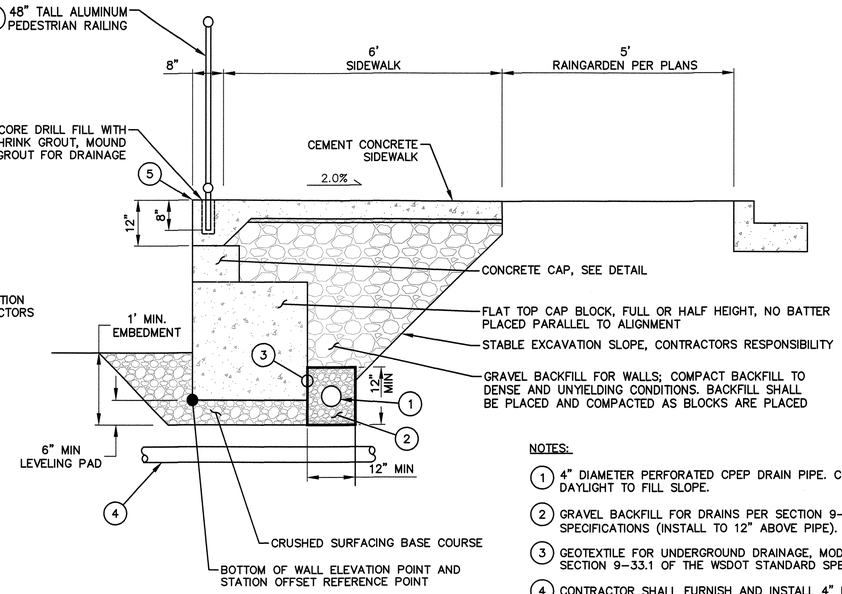
FD #22



3 BLOCK WALL



2 BLOCK WALL



1 BLOCK WALL

NOTES:

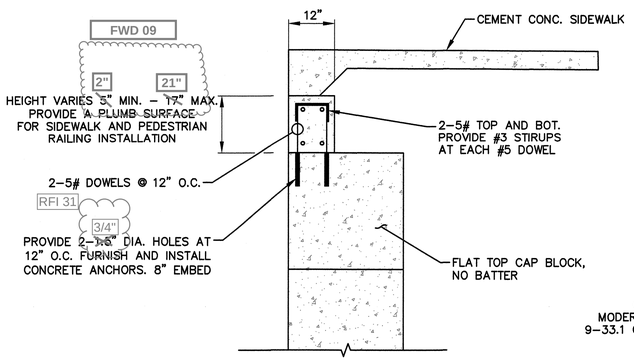
1. 4" DIAMETER PERFORATED CPEP DRAIN PIPE. CONNECT TO NEW STORM SYSTEM OR DAYLIGHT TO FILL SLOPE.
2. GRAVEL BACKFILL FOR DRAINS PER SECTION 9-03.12(4) OF THE WSDOT STANDARD SPECIFICATIONS (INSTALL TO 12" ABOVE PIPE).
3. GEOTEXTILE FOR UNDERGROUND DRAINAGE, MODERATE SURVIVABILITY CLASS A PER SECTION 9-33.1 OF THE WSDOT STANDARD SPECIFICATIONS.
4. CONTRACTOR SHALL FURNISH AND INSTALL 4" DIA. SCHEDULE 80 PVC SLEEVE FOR WATER SERVICES 1' SEPARATION FROM BOTTOM OF WALL. EXTEND SLEEVE MIN. 1' BEYOND WALL FACES. CONTRACTOR SHALL LOCATE WATER SERVICE LOCATIONS.
5. SEE CURB FACING DETAIL SHEET 62.
6. SEE RESTORATION RAILING DETAIL PER SHEET 26.

BLOCK WALL NOTES

1. ALL LOOSE SOIL AT ROCKERY FOUNDATION SHALL BE OVER EXCAVATED AND REPLACED WITH COMPACTED BACKFILL AS DESCRIBED ABOVE. THE EXCAVATION SHALL BE KEPT FREE OF WATER. THE PREPARED WALL FOUNDATION SHALL BE EVALUATED BY A GEOTECHNICAL ENGINEER PRIOR TO PLACEMENT OF ANY BLOCKS.
2. ALL BLOCKS LOCATED ALONG THE TOP ROW SHALL BE FURNISHED WITH A FLAT TOP.

ULTRA BLOCK RETAINING WALL DETAIL

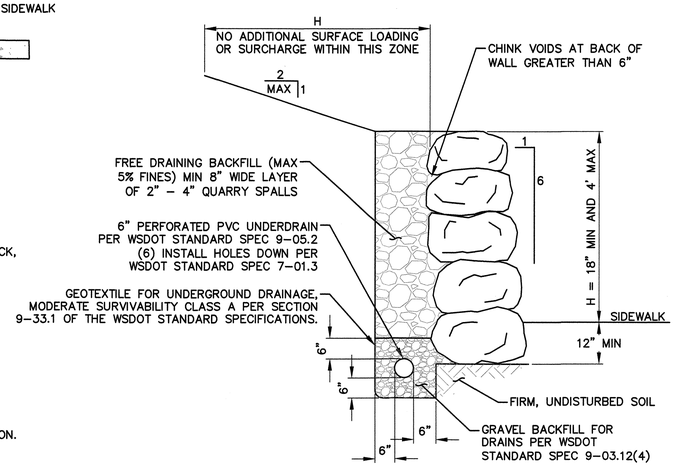
N.T.S.



NOTE:
INSTALL CEMENT CONC. CAP AT WALL BLOCK STEPPING TO PROVIDE A CONTINUOUS AND SMOOTH TOP FOR CEMENT CONC. SIDEWALK INSTALLATION.

CONCRETE CAP DETAIL

N.T.S.



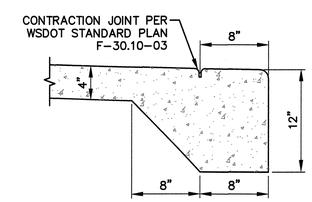
NOTES

1. LONG DIMENSIONS OF THE ROCKS SHALL EXTEND INTO EARTH TO PROVIDE MAXIMUM STABILITY.
2. ROCK SHALL BE PLACED SO AS TO LOCK INTO TWO ROCKS IN THE LOWER TIER.
3. ROCK SHALL BE HARD, SOUND, AND DURABLE MATERIAL. FREE FROM SEAMS, CRACKS, AND OTHER DEFECTS AND SHALL MEET THE REQUIREMENTS OF WSDOT STANDARD SPEC 9-13.7. SIZE OF ROCK USED SHALL BE IN ACCORDANCE WITH "STANDARD ROCK WALL CONSTRUCTION GUIDELINES" OF THE ASSOCIATED ROCKERY CONTRACTORS (ARC).
4. MATERIAL CERTIFICATIONS, TEST RESULTS, AND INSPECTION REPORTS SHALL BE SUBMITTED FOR ROCK WALLS OVER 4 FEET IN HEIGHT VERIFYING THAT THE INSTALLATION MEETS THE PLAN AND SPECIFICATION REQUIREMENTS.
5. WHERE H (HEIGHT OF ROCK WALL) IS 30 INCHES OR MORE ABOVE THE FINISHED ELEVATION OF THE SIDEWALK OR OTHER FACILITY, BLACK VINYL CHAIN LINK FENCE TYPE 4 WITH TOP RAIL PER WSDOT STANDARD PLAN L-20.10-03.
6. ROCKERIES MUST BE ACCESSIBLE BY MAINTENANCE VEHICLES.
7. CONTRACTOR SHALL DAYLIGHT OR CONNECT UNDERDRAIN PIPE TO NEW STORM DRAIN SYSTEM.
8. WIDTH OF THE BASE COURSE OF ROCKS (MEASURED PERPENDICULAR TO THE FACE OF WALL) SHALL BE AT LEAST 18 INCHES. TWO MAN ROCKS OR LARGER SHALL BE USED.
9. INSTALL GRASS LINED V-DITCH AT BACK OF WALL WHERE INDICATED ON THE PLAN.

ROCK WALL DETAIL

N.T.S.

Above Wall 1 and Wall 7 the contract drawings call for a ditch. There is no space for installation of the ditch, and the gravel base installed behind the rockeries should allow any runoff to drain down the the wall drain, thus Marshbank is to not construct these ditches. The area between the cut lines and the back of the walls should be restored with 8" deep Wood Chip Mulch to be paid by item A-58.



NOTE
EXTEND SIDEWALK TRANSVERSE EXPANSION JOINTS TO INCLUDE CURB (FULL DEPTH)

CURB FACE DETAIL

N.T.S.

811 Know what's below. Call before you dig.

ERIK O. ANDERSEN, STATE OF WASHINGTON, 36468, REGISTERED PROFESSIONAL ENGINEER
MARCH 8, 2016

SCALE BARS INDICATE SCALE OF FULL-SIZE (22 X 34 INCH) DRAWINGS. FOR REDUCED SIZE DRAWINGS ADJUST SCALE ACCORDINGLY.

NO.	DATE	BY	CKD.	REVISION
			LCR	
			RDH	
			LAT	

City of Sammamish

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DESIGNED BY: LCR
DRAWN BY: RDH
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INGLEWOOD HILL STORMWATER AND NON-MOTORIZED IMPROVEMENTS
WALL DETAILS
WALL DETAILS

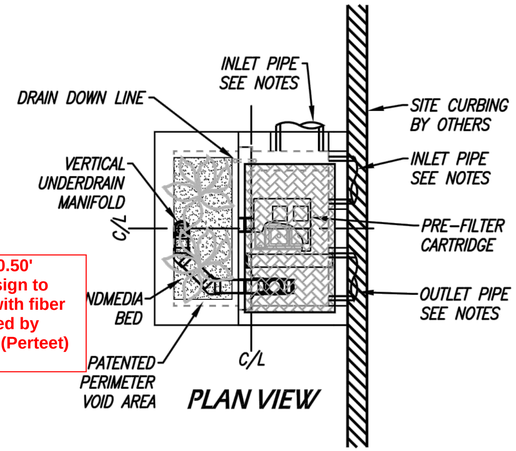
10-140008
OCI PROJECT NO.

62 SHEET OF 89

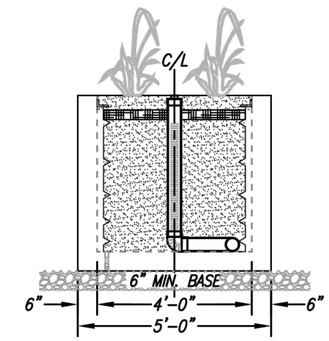
PLOTTING DATE: 3/8/2016 USER: Richard Herrmfile NAME: P:\10-140008 Inglewood Drainage\3 CADD\Sheets\P_10-140008_WDET.dwg

SITE SPECIFIC DATA			
PROJECT NUMBER		3310	
PROJECT NAME		INGLEWOOD	
PROJECT LOCATION		SAMMAMISH, WASHINGTON	
STRUCTURE ID		MWS 81	
TREATMENT REQUIRED			
VOLUME BASED (CF)		FLOW BASED (CFS)	
		0.0207	
TREATMENT HGL AVAILABLE (FT)			N/A
PEAK BYPASS REQUIRED (CFS) – IF APPLICABLE			0.108
PIPE DATA	I.E.	MATERIAL	DIAMETER
INLET PIPES	~~108.62~~ 109.12	SCHEDULE A	12"
OUTLET PIPE	~~107.29~~ 107.79	SCHEDULE A	12"
	PRETREATMENT	BIOFILTRATION	DISCHARGE
RIM ELEVATION	~~111.42~~ 111.92	~~111.42~~ 111.92	~~111.42~~ 111.92
SURFACE LOAD	PARKWAY	OPEN PLANTER	PARKWAY
FRAME & COVER	24" x 42"	N/A	N/A
WETLANDMEDIA VOLUME (CY)			0.98
WETLANDMEDIA DELIVERY METHOD			PER CONTRACT
ORIFICE SIZE (DIA. INCHES)			ø0.989"
NOTES:			

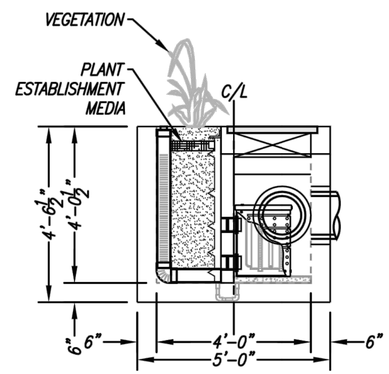
MWS installed 0.50' higher than design to avoid conflict with fiber bank. Witnessed by Andrea & Mark (Perteet) 1/23/17



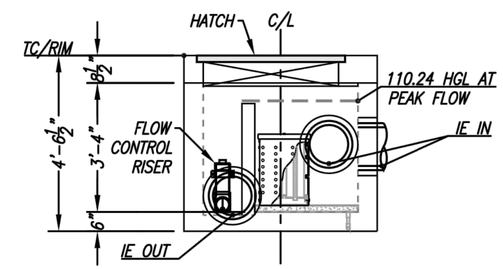
PLAN VIEW



LEFT END VIEW
BIOFILTRATION



ELEVATION VIEW



RIGHT END VIEW
PRETREATMENT/DISCHARGE

INSTALLATION NOTES

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6. DRIP OR SPRAY IRRIGATION REQUIRED ON ALL UNITS WITH VEGETATION.

GENERAL NOTES

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INTERNAL BYPASS DISCLOSURE:

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TREATMENT FLOW (CFS)	0.043
OPERATING HEAD (FT)	2.8
PRETREATMENT LOADING RATE (GPM/SF)	1.5
WETLAND MEDIA LOADING RATE (GPM/SF)	1.0

THE PRODUCT DESCRIBED MAY BE PROTECTED BY ONE OR MORE OF THE FOLLOWING US PATENTS: 7,425,262; 7,470,362; 7,674,378; 8,303,816; RELATED FOREIGN PATENTS OR OTHER PATENTS PENDING

PROPRIETARY AND CONFIDENTIAL:

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MWS-L-4-4-V
STORMWATER BIOFILTRATION SYSTEM STANDARD DETAIL

LAURA RUPERT STATE OF WASHINGTON 43848 REGISTERED PROFESSIONAL ENGINEER
4/20/16

SCALE BARS INDICATE SCALE OF FULL-SIZE (22 X 34 INCH) DRAWINGS. FOR REDUCED SIZE DRAWINGS ADJUST SCALE ACCORDINGLY.

NO.	DATE	BY	CKD.	REVISION

City of Sammamish Washington

OSBORN CONSULTING INCORPORATED
OSBORN CONSULTING, INC.
1800 112th Ave. NE, Suite 220E Ph (425) 451-4009
Bellevue, WA. 98004 Fax (425) 451-4901

DESIGNED BY: LCR
DRAWN BY: RDH
CHECKED BY: LAT
DATE: FEB. 2016

INGLEWOOD HILL STORMWATER AND NON-MOTORIZED IMPROVEMENTS
MODULAR WETLAND SYSTEM STANDARD DETAIL

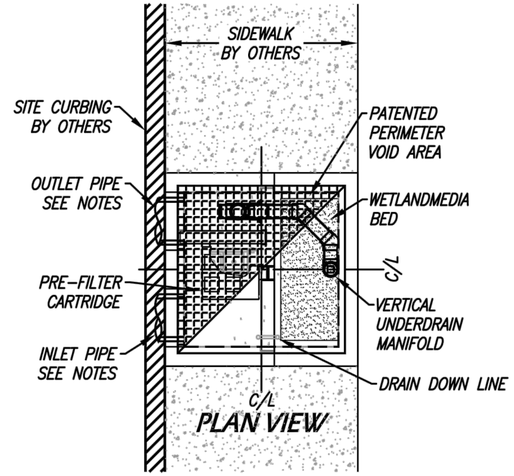
10-140008
OCI PROJECT NO.

63 SHEET OF 89

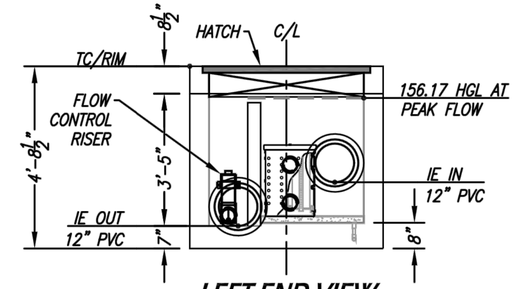
PLOTTING DATE: 4/20/2016 USER: Travis FrankliFILE NAME: P:\10-140008 Inglewood Drainage\3 CADD\Sheets\P_10-140008_SDDET.dwg

2/29/16ASPOLAR

SITE SPECIFIC DATA			
PROJECT NUMBER		3310	
PROJECT NAME		INGLEWOOD	
PROJECT LOCATION		SAMMAMISH, WASHINGTON	
STRUCTURE ID		MWS 101	
TREATMENT REQUIRED			
VOLUME BASED (CF)		FLOW BASED (CFS)	
		0.0471	
TREATMENT HGL AVAILABLE (FT)			N/A
PEAK BYPASS REQUIRED (CFS) – IF APPLICABLE			0.245
PIPE DATA	I.E.	MATERIAL	DIAMETER
INLET PIPES	155.03	SCHEDULE A	12"
OUTLET PIPE	153.90	SCHEDULE A	12"
	PRETREATMENT	BIOFILTRATION	DISCHARGE
RIM ELEVATION	158.03	158.03	158.03
SURFACE LOAD	PARKWAY	PARKWAY	PARKWAY
FRAME & COVER	4' X 4'	N/A	N/A
WETLANDMEDIA VOLUME (CY)			0.98
WETLANDMEDIA DELIVERY METHOD			PER CONTRACT
ORIFICE SIZE (DIA. INCHES)			ø1.02"
NOTES:			



PLAN VIEW



LEFT END VIEW
PRETREATMENT/DISCHARGE

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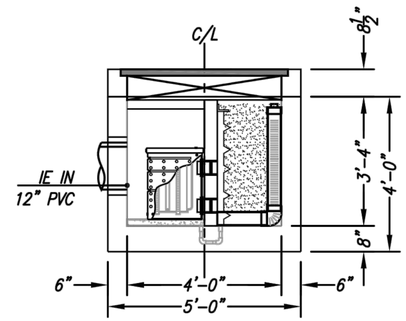
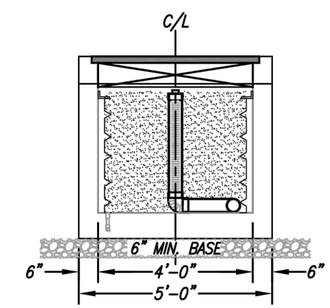


ELEVATION VIEW



RIGHT END VIEW
BIOFILTRATION

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TREATMENT FLOW (CFS)	0.048
OPERATING HEAD (FT)	3.1
PRETREATMENT LOADING RATE (GPM/SF)	1.7
WETLAND MEDIA LOADING RATE (GPM/SF)	1.0

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MWS-L-4-4-V-UG
STORMWATER BIOFILTRATION SYSTEM STANDARD DETAIL

LAURA RUPPERT, STATE OF WASHINGTON, 43848, REGISTERED PROFESSIONAL ENGINEER
4/20/16

SCALE BARS INDICATE SCALE OF FULL-SIZE (22 X 34 INCH) DRAWINGS. FOR REDUCED SIZE DRAWINGS ADJUST SCALE ACCORDINGLY.

NO.	DATE	BY	CKD.	REVISION

City of Sammamish Washington

OSBORN CONSULTING INCORPORATED
OSBORN CONSULTING, INC.
1800 112th Ave. NE, Suite 220E Ph (425) 451-4009
Bellevue, WA. 98004 Fax (425) 451-4901

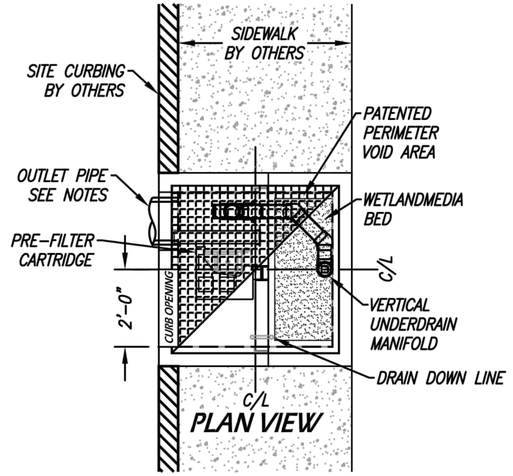
DESIGNED BY: LCR
DRAWN BY: RDH
CHECKED BY: LAT
DATE: FEB. 2016

INGLEWOOD HILL STORMWATER AND NON-MOTORIZED IMPROVEMENTS
MODULAR WETLAND SYSTEM STANDARD DETAIL

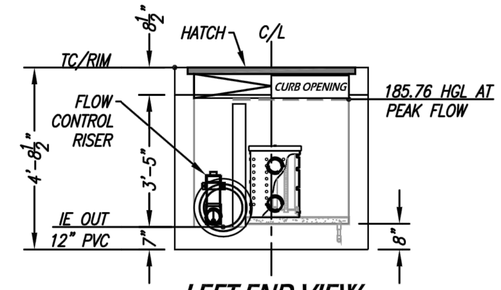
10-140008
OCI PROJECT NO.

PLOTTING DATE: 4/20/2016 USER: Travis FranklinFILE NAME: P:\10-140008 Inglewood Drainage\3 CADD\Sheets\P_10-140008_SDDET.dwg
2/29/16ASPOLAR

SITE SPECIFIC DATA			
PROJECT NUMBER		3310	
PROJECT NAME		INGLEWOOD	
PROJECT LOCATION		SAMMAMISH, WASHINGTON	
STRUCTURE ID		MWS 106	
TREATMENT REQUIRED			
VOLUME BASED (CF)		FLOW BASED (CFS)	
		0.0471	
TREATMENT HGL AVAILABLE (FT)			N/A
PEAK BYPASS REQUIRED (CFS) – IF APPLICABLE			0.245
PIPE DATA	I.E.	MATERIAL	DIAMETER
INLET PIPES	N/A	N/A	N/A
OUTLET PIPE	182.79	SCHEDULE A	12"
	PRETREATMENT	BIOFILTRATION	DISCHARGE
RIM ELEVATION	186.92	186.92	186.92
SURFACE LOAD	PARKWAY	PARKWAY	PARKWAY
FRAME & COVER	4' X 4'	N/A	N/A
WETLANDMEDIA VOLUME (CY)			0.98
WETLANDMEDIA DELIVERY METHOD			PER CONTRACT
ORIFICE SIZE (DIA. INCHES)			ø1.02"
NOTES:			



PLAN VIEW



LEFT END VIEW
PRETREATMENT/DISCHARGE

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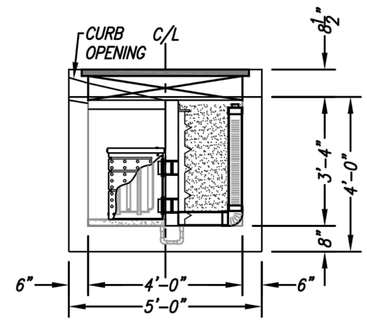
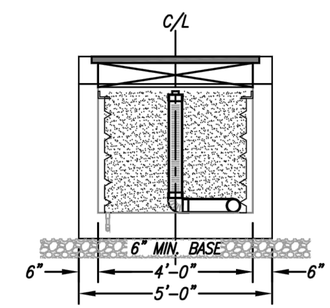
2/29/16SSPOLAR



ELEVATION VIEW



RIGHT END VIEW
BIOFILTRATION

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PRETREATMENT LOADING RATE (GPM/SF)	1.7
WETLAND MEDIA LOADING RATE (GPM/SF)	1.0

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MWS-L-4-4-C-UG
STORMWATER BIOFILTRATION SYSTEM STANDARD DETAIL

LAURA RUPPERT STATE OF WASHINGTON 43848 REGISTERED PROFESSIONAL ENGINEER
4/20/16

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DESIGNED BY: LCR
DRAWN BY: RDH
CHECKED BY: LAT
DATE: FEB. 2016

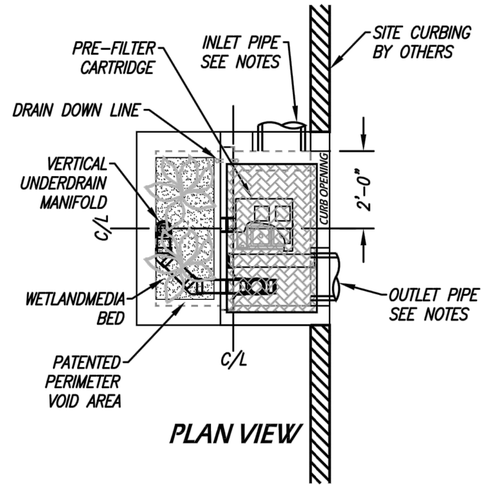
INGLEWOOD HILL STORMWATER AND NON-MOTORIZED IMPROVEMENTS
MODULAR WETLAND SYSTEM STANDARD DETAIL

10-140008
OCI PROJECT NO.

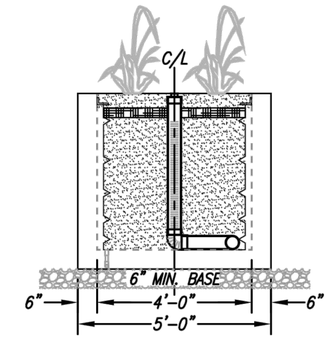
65 SHEET OF 89

PLOTTING DATE: 4/20/2016 USER: Travis FranklinFILE NAME: P:\10-140008 Inglewood Drainage\3 CADD\Sheets\P_10-140008_SDDET.dwg

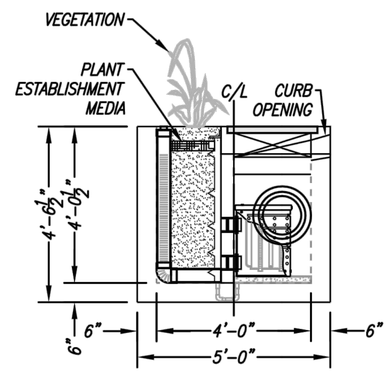
SITE SPECIFIC DATA			
PROJECT NUMBER		3310	
PROJECT NAME		INGLEWOOD	
PROJECT LOCATION		SAMMAMISH, WASHINGTON	
STRUCTURE ID		MWS 111	
TREATMENT REQUIRED			
VOLUME BASED (CF)		FLOW BASED (CFS)	
		0.0113	
TREATMENT HGL AVAILABLE (FT)			N/A
PEAK BYPASS REQUIRED (CFS) – IF APPLICABLE			0.059
PIPE DATA	I.E.	MATERIAL	DIAMETER
INLET PIPES	206.48	SCHEDULE A	12"
OUTLET PIPE	205.15	SCHEDULE A	12"
	PRETREATMENT	BIOFILTRATION	DISCHARGE
RIM ELEVATION	209.28	209.28	209.28
SURFACE LOAD	PARKWAY	OPEN PLANTER	PARKWAY
FRAME & COVER	24" x 42"	N/A	N/A
WETLANDMEDIA VOLUME (CY)			0.98
WETLANDMEDIA DELIVERY METHOD			PER CONTRACT
ORIFICE SIZE (DIA. INCHES)			ø0.989"
NOTES:			



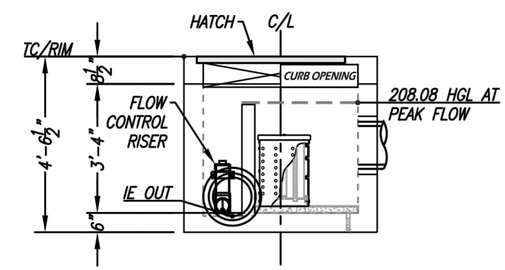
PLAN VIEW



LEFT END VIEW
BIOFILTRATION



ELEVATION VIEW



RIGHT END VIEW
PRETREATMENT/DISCHARGE

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MWS-L-4-4-C
STORMWATER BIOFILTRATION SYSTEM STANDARD DETAIL

LAURA RUPPERT STATE OF WASHINGTON 43848 REGISTERED PROFESSIONAL ENGINEER
4/20/16

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1800 112th Ave. NE, Suite 220E Ph (425) 451-4009
Bellevue, WA. 98004 Fax (425) 451-4901

DESIGNED BY: LCR
DRAWN BY: RDH
CHECKED BY: LAT
DATE: FEB. 2016

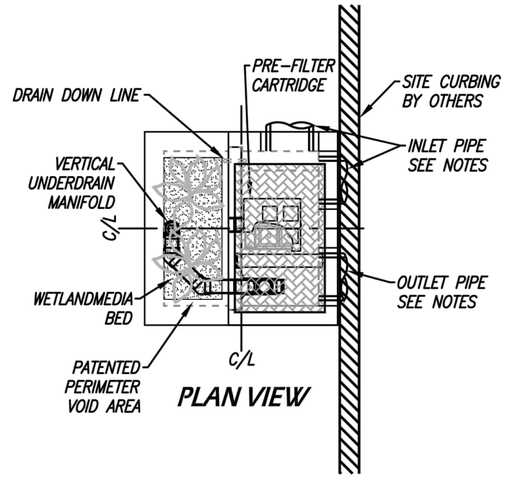
INGLEWOOD HILL STORMWATER AND NON-MOTORIZED IMPROVEMENTS
MODULAR WETLAND SYSTEM STANDARD DETAIL

10-140008
OCI PROJECT NO.

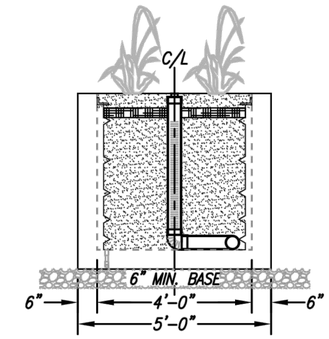
66 SHEET OF 89

PLOTTING DATE: 4/20/2016 USER: Travis FranklinFILE NAME: P:\10-140008 Inglewood Drainage\3 CADD\Sheets\P_10-140008_SDDET.dwg
3/1/16ASPDLAR

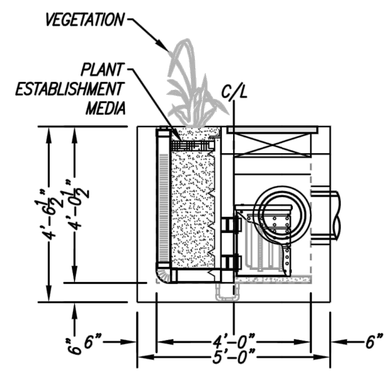
SITE SPECIFIC DATA			
PROJECT NUMBER		3310	
PROJECT NAME		INGLEWOOD	
PROJECT LOCATION		SAMMAMISH, WASHINGTON	
STRUCTURE ID		MWS 121	
TREATMENT REQUIRED			
VOLUME BASED (CF)		FLOW BASED (CFS)	
		0.0113	
TREATMENT HGL AVAILABLE (FT)			N/A
PEAK BYPASS REQUIRED (CFS) – IF APPLICABLE			0.059
PIPE DATA	I.E.	MATERIAL	DIAMETER
INLET PIPES	221.88	SCHEDULE A	12"
OUTLET PIPE	220.55	SCHEDULE A	12"
	PRETREATMENT	BIOFILTRATION	DISCHARGE
RIM ELEVATION	224.68	224.68	224.68
SURFACE LOAD	PARKWAY	OPEN PLANTER	PARKWAY
FRAME & COVER	24" x 42"	N/A	N/A
WETLANDMEDIA VOLUME (CY)			0.98
WETLANDMEDIA DELIVERY METHOD			PER CONTRACT
ORIFICE SIZE (DIA. INCHES)			ø0.983"
NOTES:			



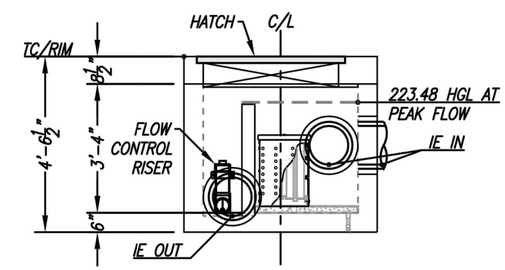
PLAN VIEW



LEFT END VIEW
BIOFILTRATION



ELEVATION VIEW



RIGHT END VIEW
PRETREATMENT/DISCHARGE

INSTALLATION NOTES

1. CONTRACTOR TO PROVIDE ALL LABOR, EQUIPMENT, MATERIALS AND INCIDENTALS REQUIRED TO OFFLOAD AND INSTALL THE SYSTEM AND APPURTENANCES IN ACCORDANCE WITH THIS DRAWING AND THE MANUFACTURERS SPECIFICATIONS, UNLESS OTHERWISE STATED IN MANUFACTURERS CONTRACT.
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6. DRIP OR SPRAY IRRIGATION REQUIRED ON ALL UNITS WITH VEGETATION.

GENERAL NOTES

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2. ALL DIMENSIONS, ELEVATIONS, SPECIFICATIONS AND CAPACITIES ARE SUBJECT TO CHANGE. FOR PROJECT SPECIFIC DRAWINGS DETAILING EXACT DIMENSIONS, WEIGHTS AND ACCESSORIES PLEASE CONTACT MANUFACTURER.

INTERNAL BYPASS DISCLOSURE:

THE DESIGN AND CAPACITY OF THE PEAK CONVEYANCE METHOD TO BE REVIEWED AND APPROVED BY THE ENGINEER OF RECORD. HGL(S) AT PEAK FLOW SHALL BE ASSESSED TO ENSURE NO UPSTREAM FLOODING. PEAK HGL AND BYPASS CAPACITY SHOWN ON DRAWING ARE USED FOR GUIDANCE ONLY.

TREATMENT FLOW (CFS)	0.043
OPERATING HEAD (FT)	2.8
PRETREATMENT LOADING RATE (GPM/SF)	1.5
WETLAND MEDIA LOADING RATE (GPM/SF)	1.0

THE PRODUCT DESCRIBED MAY BE PROTECTED BY ONE OR MORE OF THE FOLLOWING US PATENTS: 7,425,262; 7,470,362; 7,674,378; 8,303,816; RELATED FOREIGN PATENTS OR OTHER PATENTS PENDING

PROPRIETARY AND CONFIDENTIAL:

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF MODULAR WETLANDS SYSTEMS. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF MODULAR WETLANDS SYSTEMS IS PROHIBITED.

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MWS-L-4-4-V
STORMWATER BIOFILTRATION SYSTEM STANDARD DETAIL

LAURA RUPPERT, STATE OF WASHINGTON, 43848, REGISTERED PROFESSIONAL ENGINEER
4/20/16

SCALE BARS INDICATE SCALE OF FULL-SIZE (22 X 34 INCH) DRAWINGS. FOR REDUCED SIZE DRAWINGS ADJUST SCALE ACCORDINGLY.

NO.	DATE	BY	CKD.	REVISION

City of Sammamish Washington

OSBORN CONSULTING INCORPORATED
OSBORN CONSULTING, INC.
1800 112th Ave. NE, Suite 220E Ph (425) 451-4009
Bellevue, WA. 98004 Fax (425) 451-4901

DESIGNED BY: LCR
DRAWN BY: RDH
CHECKED BY: LAT
DATE: FEB. 2016

INGLEWOOD HILL STORMWATER AND NON-MOTORIZED IMPROVEMENTS
MODULAR WETLAND SYSTEM STANDARD DETAIL

10-140008
OCI PROJECT NO.

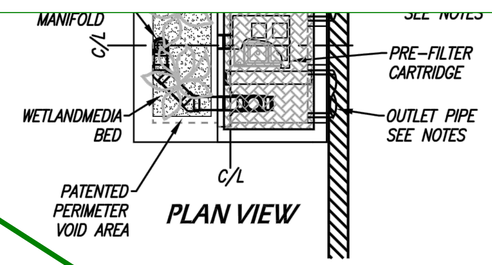
67 SHEET OF 89

PLOTTING DATE: 4/20/2016 USER: Travis FrankiFILE NAME: P:\10-140008 Inglewood Drainage\3 CADD\Sheets\P_10-140008_SDDET.dwg

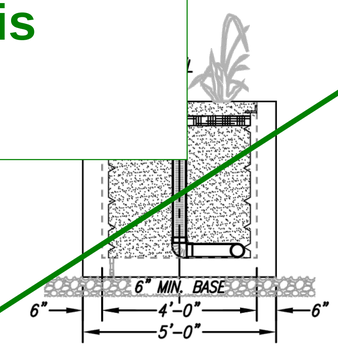
2/29/16SEPLAR

MWS 131 deleted per email from Chris Schuyler (Perteet) dated 10/19/16

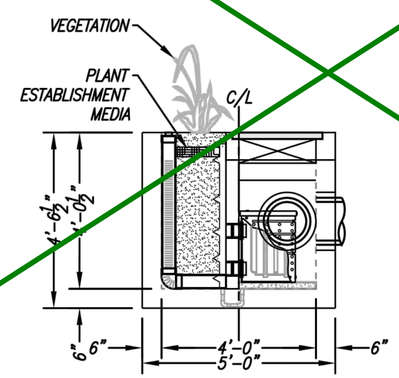
SITE SPECIFIC DATA			
PROJECT NUMBER		3310	
PROJECT NAME		INGLEWOOD	
PROJECT LOCATION		SAMMAMISH, WASHINGTON	
STRUCTURE ID		MWS 131	
TREATMENT REQUIRED			
VOLUME BASED (CF)		FLOW BASED (CFS)	
		0.0113	
TREATMENT HGL AVAILABLE (FT)			N/A
PEAK BYPASS REQUIRED (CFS) – IF APPLICABLE			0.059
PIPE DATA	I.E.	MATERIAL	DIAMETER
INLET PIPES	241.53	SCHEDULE A	12"
OUTLET PIPE	240.20	SCHEDULE A	12"
	PRETREATMENT	BIOFILTRATION	DISCHARGE
RIM ELEVATION	244.33	244.33	244.33
SURFACE LOAD	PARKWAY	OPEN PLANTER	PARKWAY
FRAME & COVER	24" x 42"	N/A	N/A
WETLANDMEDIA VOLUME (CY)			0.98
WETLANDMEDIA DELIVERY METHOD			PER CONTRACT
ORIFICE SIZE (DIA. INCHES)			ø0.989"
NOTES:			



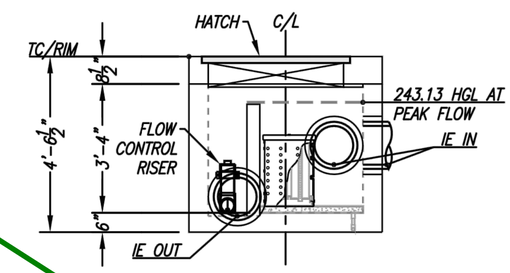
PLAN VIEW



LEFT END VIEW
BIOFILTRATION



ELEVATION VIEW



RIGHT END VIEW
PRETREATMENT/DISCHARGE

INSTALLATION NOTES

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TREATMENT FLOW (CFS)	0.043
OPERATING HEAD (FT)	2.8
PRETREATMENT LOADING RATE (GPM/SF)	1.5
WETLAND MEDIA LOADING RATE (GPM/SF)	1.0

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MWS-L-4-4-V
STORMWATER BIOFILTRATION SYSTEM STANDARD DETAIL

LAURA RUPPERT, STATE OF WASHINGTON, 43848, REGISTERED PROFESSIONAL ENGINEER
4/20/16

SCALE BARS INDICATE SCALE OF FULL-SIZE (22 X 34 INCH) DRAWINGS. FOR REDUCED SIZE DRAWINGS ADJUST SCALE ACCORDINGLY.

NO.	DATE	BY	CKD.	REVISION

City of Sammamish Washington

OSBORN CONSULTING INCORPORATED
OSBORN CONSULTING, INC.
1800 112th Ave. NE, Suite 220E Ph (425) 451-4009
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DESIGNED BY: LCR
DRAWN BY: RDH
CHECKED BY: LAT
DATE: FEB. 2016

INGLEWOOD HILL STORMWATER AND NON-MOTORIZED IMPROVEMENTS
MODULAR WETLAND SYSTEM STANDARD DETAIL

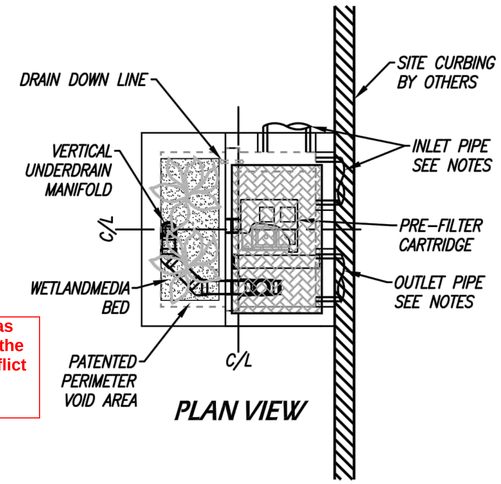
10-140008
OCI PROJECT NO.

68 SHEET OF 89

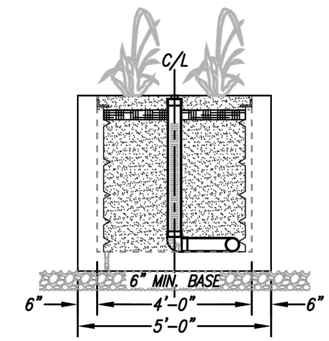
PLOTTING DATE: 4/20/2016 USER: Travis Franklin FILE NAME: P:\10-140008 Inglewood Drainage\3 CADD\Sheets\P_10-140008_SDDET.dwg
2/29/16 SPOLAR

SITE SPECIFIC DATA			
PROJECT NUMBER		3310	
PROJECT NAME		INGLEWOOD	
PROJECT LOCATION		SAMMAMISH, WASHINGTON	
STRUCTURE ID		MWS 141	
TREATMENT REQUIRED			
VOLUME BASED (CF)		FLOW BASED (CFS)	
		0.0113	
TREATMENT HGL AVAILABLE (FT)			N/A
PEAK BYPASS REQUIRED (CFS) – IF APPLICABLE			0.059
PIPE DATA	I.E.	MATERIAL	DIAMETER
INLET PIPE	255.54 ~~255.04~~	SCHEDULE A	12"
OUTLET PIPE	~~253.71~~ 254.21	SCHEDULE A	12"
	PRETREATMENT	BIOFILTRATION	DISCHARGE
RIM ELEVATION	258.34 ~~257.84~~	258.34 ~~257.84~~	258.34 ~~257.84~~
SURFACE LOAD	PARKWAY	OPEN PLANTER	PARKWAY
FRAME & COVER	24" x 42"	N/A	N/A
WETLANDMEDIA VOLUME (CY)			0.98
WETLANDMEDIA DELIVERY METHOD			PER CONTRACT
ORIFICE SIZE (DIA. INCHES)			ø0.989"
NOTES:			

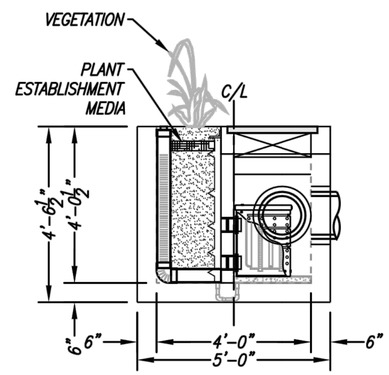
MWS elevation was raised up 0.50' in the field to avoid conflict with water main 1/25/17



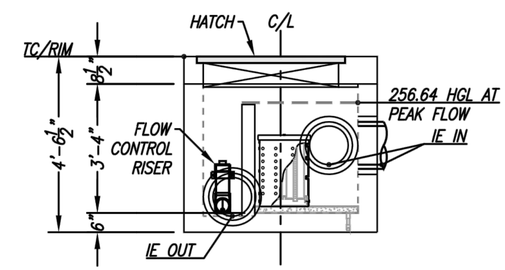
PLAN VIEW



LEFT END VIEW
BIOFILTRATION



ELEVATION VIEW



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PRETREATMENT/DISCHARGE

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WETLAND MEDIA LOADING RATE (GPM/SF)	1.0

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MWS-L-4-4-V
STORMWATER BIOFILTRATION SYSTEM STANDARD DETAIL

LAURA RUPPERT, STATE OF WASHINGTON, 43648, REGISTERED PROFESSIONAL ENGINEER
4/20/16

SCALE BARS INDICATE SCALE OF FULL-SIZE (22 X 34 INCH) DRAWINGS. FOR REDUCED SIZE DRAWINGS ADJUST SCALE ACCORDINGLY.

NO.	DATE	BY	CKD.	REVISION

City of Sammamish Washington

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DESIGNED BY: LCR
DRAWN BY: RDH
CHECKED BY: LAT
DATE: FEB. 2016

INGLEWOOD HILL STORMWATER AND NON-MOTORIZED IMPROVEMENTS
MODULAR WETLAND SYSTEM STANDARD DETAIL

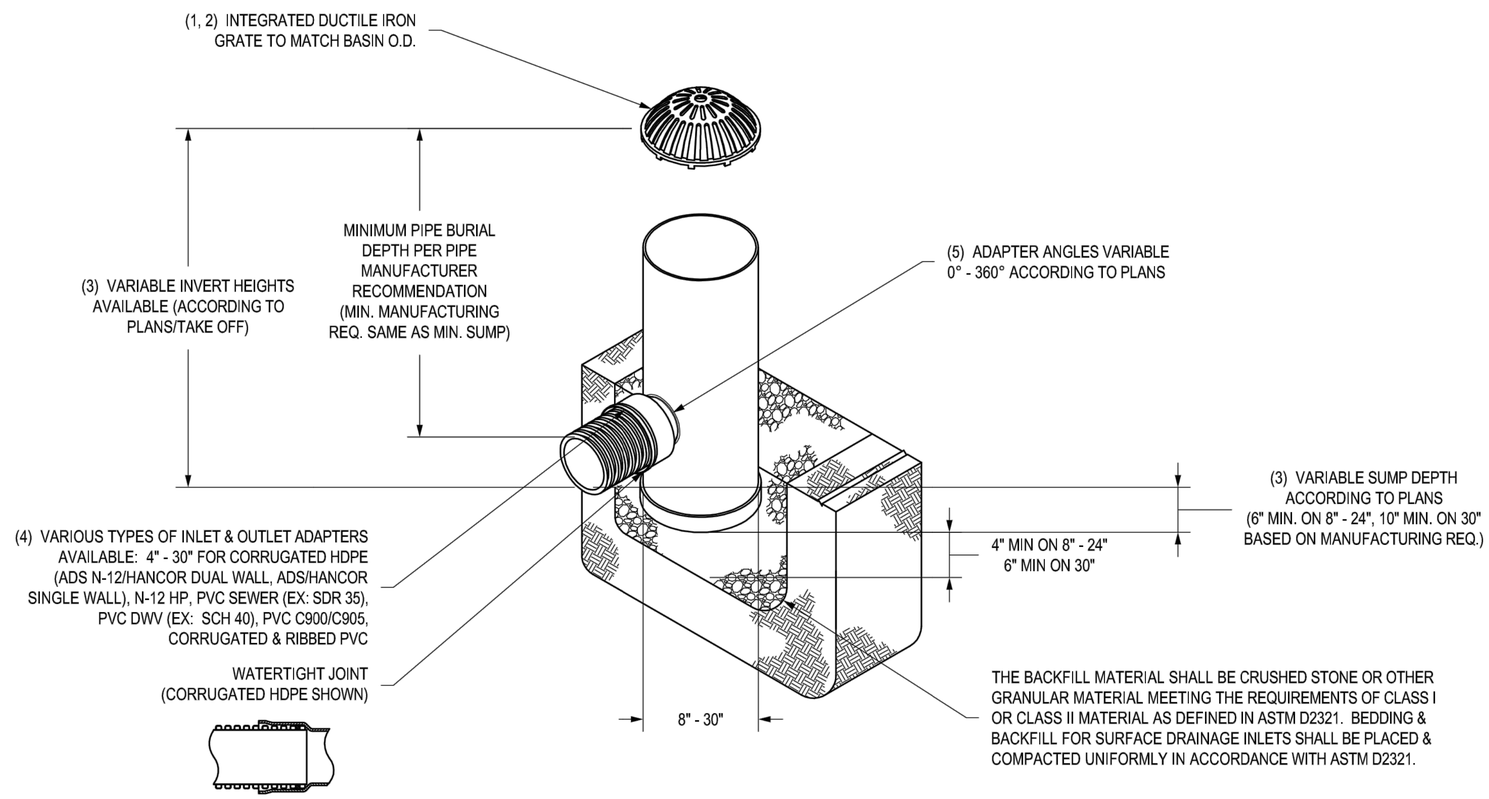
10-140008
OCI PROJECT NO.

69 SHEET OF 89

PLOTTING DATE: 4/20/2016 USER: Travis FrankliFILE NAME: P:\10-140008 Inglewood Drainage\3 CADD\Sheets\P_10-140008_SDDET.dwg

2/29/16ASEPLAR

NYLOPLAST DRAIN BASIN WITH DOME GRATE



1 - 8" - 30" DOME GRATES SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05.
2 - 8" & 10" DOME GRATES FIT ONTO THE DRAIN BASINS WITH THE USE OF A PVC BODY TOP. SEE DRAWING NO. 7001-110-045.
3 - DRAIN BASIN TO BE CUSTOM MANUFACTURED ACCORDING TO PLAN DETAILS. RISERS ARE NEEDED FOR BASINS OVER 84" DUE TO SHIPPING RESTRICTIONS. SEE DRAWING NO. 7001-110-065.
4 - DRAINAGE CONNECTION STUB JOINT TIGHTNESS SHALL CONFORM TO ASTM D3212 FOR CORRUGATED HDPE (ADS N-12/HANCOR DUAL WALL), N-12 HP, & PVC SEWER (4" - 24").
5 - ADAPTERS CAN BE MOUNTED ON ANY ANGLE 0° TO 360°. TO DETERMINE MINIMUM ANGLE BETWEEN ADAPTERS SEE DRAWING NO. 7001-110-012.
6 - 8" - 30" DOME GRATES HAVE NO LOAD RATING.

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DRAWN BY EBC	MATERIAL	Nyloplast	3130 VERONA AVE BUFORD, GA 30518 PHN (770) 932-2443 FAX (770) 932-2490 www.nyloplast-us.com
DATE 03-25-10			
REVISED BY CCA	PROJECT NO./NAME	TITLE	DRAIN BASIN WITH DOME GRATE QUICK SPEC INSTALLATION DETAIL
DATE 09-05-13			
DWG SIZE A	SCALE 1:40 SHEET 1 OF 1	DWG NO. 7001-110-397	REV C

LAURA RUPPERT — STATE OF WASHINGTON — 43648 — REGISTERED PROFESSIONAL ENGINEER
4/20/16

SCALE BARS INDICATE SCALE OF FULL-SIZE (22 X 34 INCH) DRAWINGS. FOR REDUCED SIZE DRAWINGS ADJUST SCALE ACCORDINGLY.

NO.	DATE	BY	CKD.	REVISION

City of Sammamish Washington

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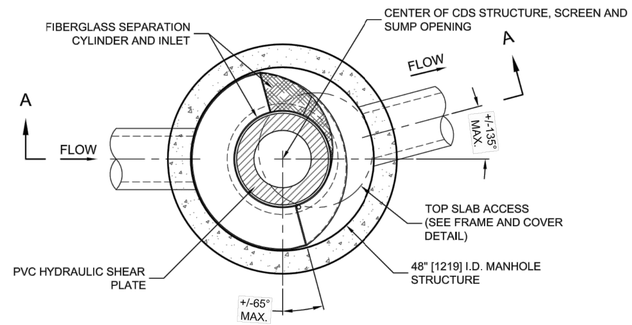
DESIGNED BY: LCR
DRAWN BY: RDH
CHECKED BY: LAT
DATE: FEB. 2016

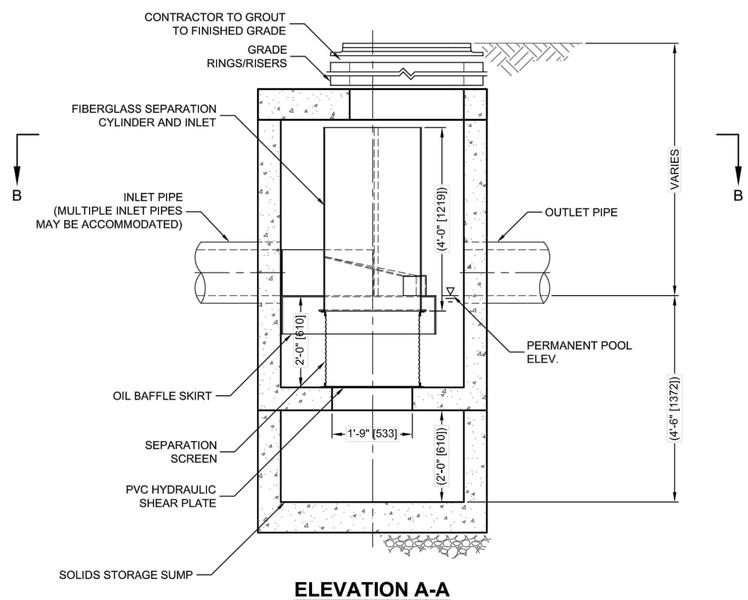
INGLEWOOD HILL STORMWATER AND NON-MOTORIZED IMPROVEMENTS
NYLOSPLAST DRAIN BASIN STANDARD DETAIL

10-140008 OCI PROJECT NO.
70 SHEET OF 89

PLOTTING DATE: 4/20/2016 USER: Travis FranklinFILE NAME: P:\10-140008 Inglewood Drainage\3 CADD\Sheets\P_10-140008_SDDET.dwg



PLAN VIEW B-B
N.T.S.



ELEVATION A-A
N.T.S.

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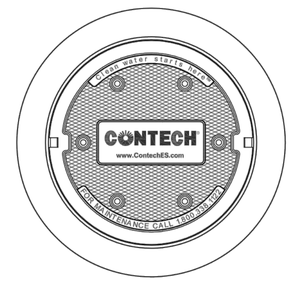
CDS2015-4-C DESIGN NOTES

CDS2015-4-C RATED TREATMENT CAPACITY IS 0.7 CFS [19.8 L/s], OR PER LOCAL REGULATIONS. MAXIMUM HYDRAULIC INTERNAL BYPASS CAPACITY IS 10.0 CFS [283 L/s]. IF THE SITE CONDITIONS EXCEED 10.0 [283 L/s] CFS, AN UPSTREAM BYPASS STRUCTURE IS REQUIRED.

THE STANDARD CDS2015-4-C CONFIGURATION IS SHOWN. ALTERNATE CONFIGURATIONS ARE AVAILABLE AND ARE LISTED BELOW. SOME CONFIGURATIONS MAY BE COMBINED TO SUIT SITE REQUIREMENTS.

CONFIGURATION DESCRIPTION
GRATED INLET ONLY (NO INLET PIPE)
GRATED INLET WITH INLET PIPE OR PIPES
CURB INLET ONLY (NO INLET PIPE)
CURB INLET WITH INLET PIPE OR PIPES
SEPARATE OIL BAFFLE (SINGLE INLET PIPE REQUIRED FOR THIS CONFIGURATION)
SEDIMENT WEIR FOR NJDEP / NJCAT CONFORMING UNITS

PIPE INLET ONLY WITH SOLID COVER



FRAME AND COVER
(DIAMETER VARIES)
N.T.S.

SITE SPECIFIC DATA REQUIREMENTS

STRUCTURE ID			CB400
WATER QUALITY FLOW RATE (CFS OR L/s)			0.24
PEAK FLOW RATE (CFS OR L/s)			0.24
RETURN PERIOD OF PEAK FLOW (YRS)			WQ
SCREEN APERTURE (2400 OR 4700)			*
PIPE DATA:	I.E.	MATERIAL	DIAMETER
INLET PIPE 1	252.11	PVC	12-IN
INLET PIPE 2	*	*	*
OUTLET PIPE	252.11	PVC	12-IN
RIM ELEVATION			268.36
ANTI-FLOTATION BALLAST		WIDTH	HEIGHT
		*	*

NOTES/SPECIAL REQUIREMENTS:

* PER ENGINEER OF RECORD

GENERAL NOTES
1. CONTECH TO PROVIDE ALL MATERIALS UNLESS NOTED OTHERWISE.
2. DIMENSIONS MARKED WITH ( ) ARE REFERENCE DIMENSIONS. ACTUAL DIMENSIONS MAY VARY.
3. FOR FABRICATION DRAWINGS WITH DETAILED STRUCTURE DIMENSIONS AND WEIGHTS, PLEASE CONTACT YOUR CONTECH ENGINEERED SOLUTIONS LLC REPRESENTATIVE. www.ContechES.com
4. CDS WATER QUALITY STRUCTURE SHALL BE IN ACCORDANCE WITH ALL DESIGN DATA AND INFORMATION CONTAINED IN THIS DRAWING.
5. STRUCTURE SHALL MEET AASHTO HS20 AND CASTINGS SHALL MEET HS20 (AASHTO M 306) LOAD RATING, ASSUMING GROUNDWATER ELEVATION AT, OR BELOW, THE OUTLET PIPE INVERT ELEVATION. ENGINEER OF RECORD TO CONFIRM ACTUAL GROUNDWATER ELEVATION.
6. PVC HYDRAULIC SHEAR PLATE IS PLACED ON SHELF AT BOTTOM OF SCREEN CYLINDER. REMOVE AND REPLACE AS NECESSARY DURING MAINTENANCE CLEANING.

INSTALLATION NOTES
A. ANY SUB-BASE, BACKFILL DEPTH, AND/OR ANTI-FLOTATION PROVISIONS ARE SITE-SPECIFIC DESIGN CONSIDERATIONS AND SHALL BE SPECIFIED BY ENGINEER OF RECORD.
B. CONTRACTOR TO PROVIDE EQUIPMENT WITH SUFFICIENT LIFTING AND REACH CAPACITY TO LIFT AND SET THE CDS MANHOLE STRUCTURE (LIFTING CLUTCHES PROVIDED).
C. CONTRACTOR TO ADD JOINT SEALANT BETWEEN ALL STRUCTURE SECTIONS, AND ASSEMBLE STRUCTURE.
D. CONTRACTOR TO PROVIDE, INSTALL, AND GROUT PIPES. MATCH PIPE INVERTS WITH ELEVATIONS SHOWN.
E. CONTRACTOR TO TAKE APPROPRIATE MEASURES TO ASSURE UNIT IS WATER TIGHT, HOLDING WATER TO FLOWLINE INVERT MINIMUM. IT IS SUGGESTED THAT ALL JOINTS BELOW PIPE INVERTS ARE GROUTED.

CONTECH® ENGINEERED SOLUTIONS LLC
www.ContechES.com
9025 Centre Pointe Dr., Suite 400, West Chester, OH 45069
800-338-1122 513-645-7000 513-645-7993 FAX

CDS2015-4-C
INLINE CDS
STANDARD DETAIL

LAURA RUPPERT STATE OF WASHINGTON 43848 REGISTERED PROFESSIONAL ENGINEER
4/20/16

SCALE BARS INDICATE SCALE OF FULL-SIZE (22 X 34 INCH) DRAWINGS. FOR REDUCED SIZE DRAWINGS ADJUST SCALE ACCORDINGLY.

NO.	DATE	BY	CKD.	REVISION

City of Sammamish Washington

OSBORN CONSULTING INCORPORATED
OSBORN CONSULTING, INC.
1800 112th Ave. NE, Suite 220E Ph (425) 451-4009
Bellevue, WA. 98004 Fax (425) 451-4901

DESIGNED BY: LCR
DRAWN BY: RDH
CHECKED BY: LAT
DATE: FEB. 2016

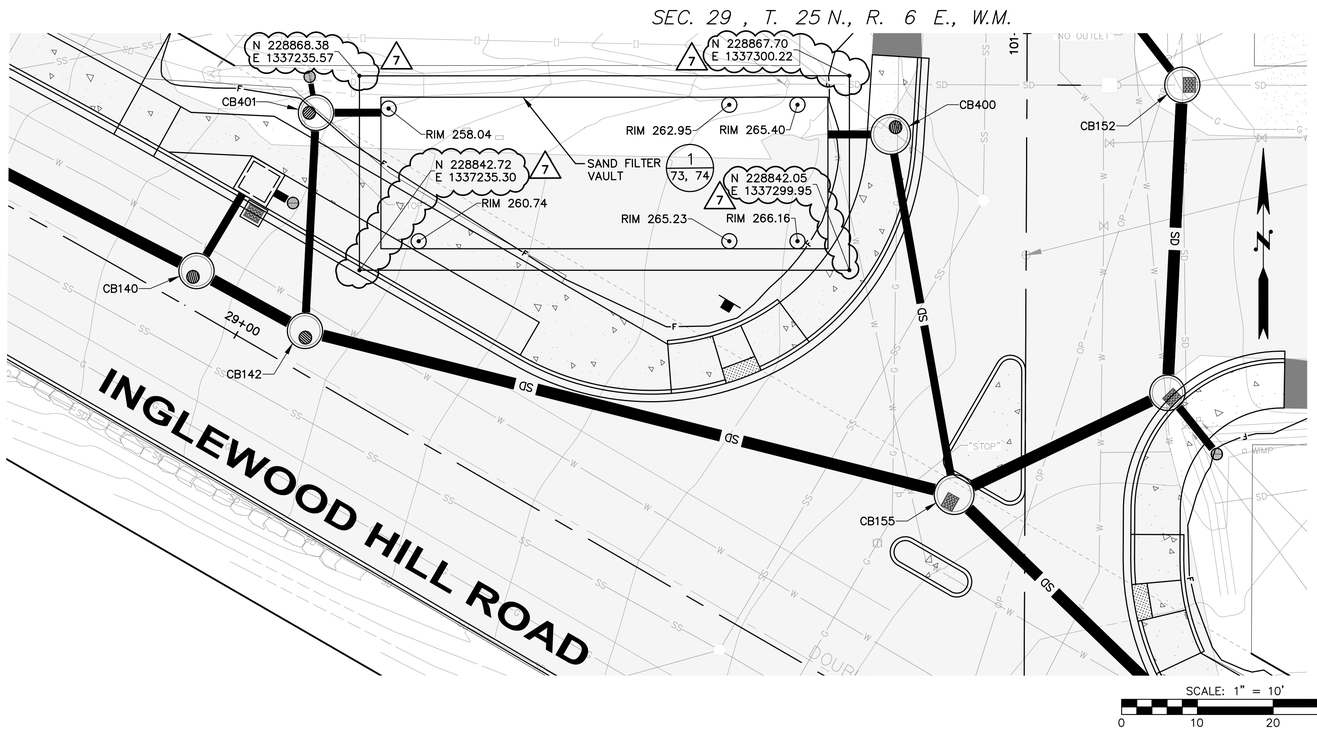
INGLEWOOD HILL STORMWATER AND NON-MOTORIZED IMPROVEMENTS

INLINE CDS DETAIL

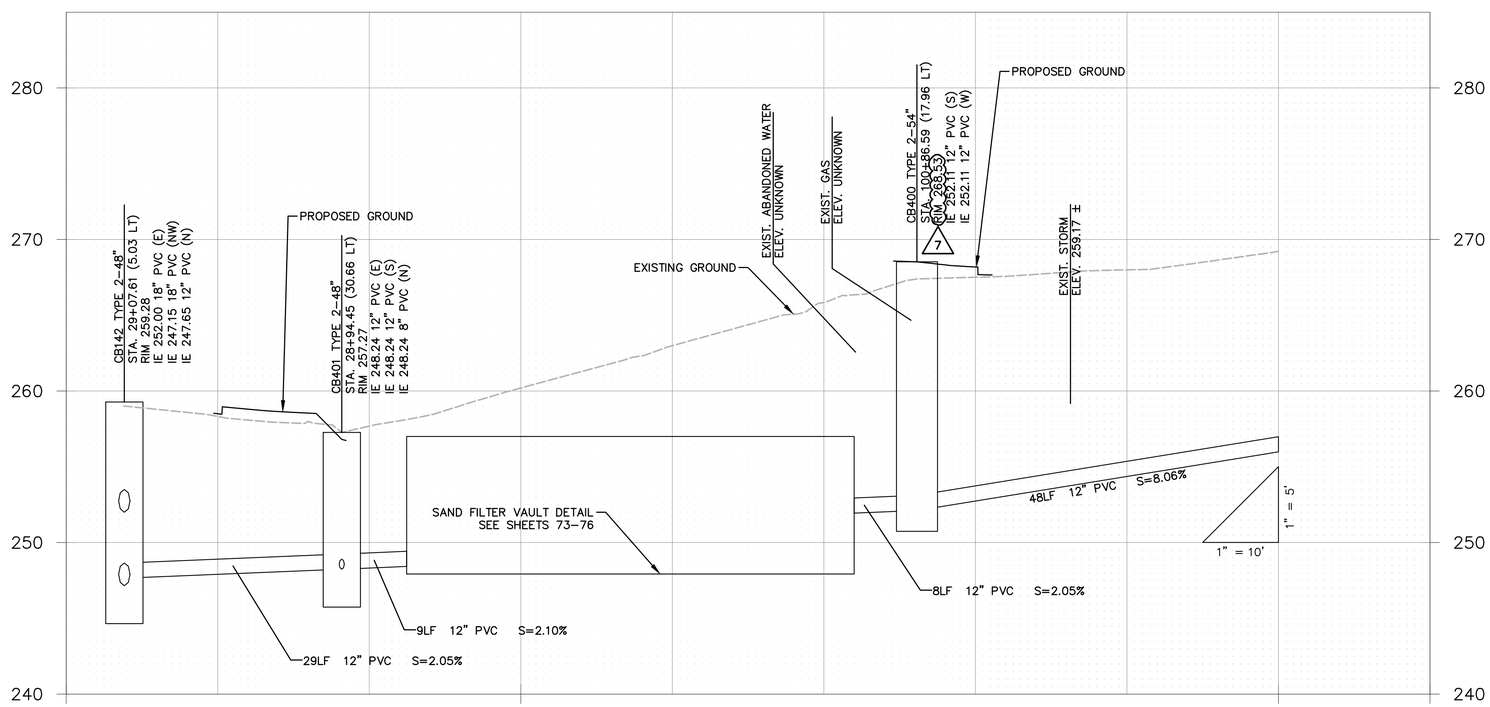
10-140008
OCI PROJECT NO.

PLOTTING DATE: 4/20/2016 USER: Travis FranklinFILE NAME: P:\10-140008 Inglewood Drainage\3 CADD\Sheets\P_10-140008_SDDET.dwg
I:\STORMWATER\COMM\OPS\22 CDS\40 STANDARD DRAWINGS\INLINE (CDS-C)\DWG\CDS2015-4-C-DTL.DWG 5/13/2014 5:52 PM

RFI 26



NOTE:
RESTORE DISTURBED AREAS WITH 18-IN DEEP TOPSOIL COVERED WITH 2-IN WOOD CHIP MULCH.



Know what's below.
Call before you dig.

SCALE BARS INDICATE SCALE OF FULL-SIZE (22 X 34 INCH) DRAWINGS. FOR REDUCED SIZE DRAWINGS ADJUST SCALE ACCORDINGLY.

NO.	DATE	BY	CKD.	REVISION
7	9/12/16	TNF	LR	SAND FILTER COORDINATES

City of Sammamish Washington

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DATE: FEB. 2016

INGLEWOOD HILL STORMWATER AND NON-MOTORIZED IMPROVEMENTS
STORM DRAINAGE DETAILS
SAND FILTER VAULT PLAN AND PROFILE

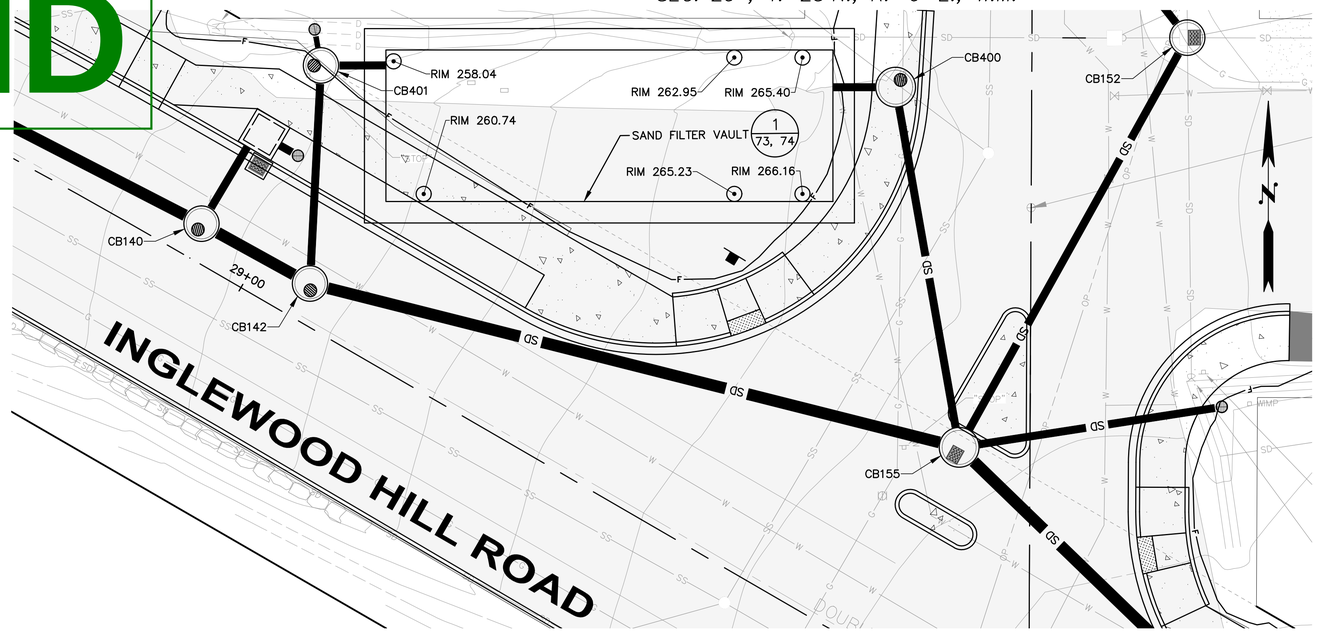
10-140008
OCI PROJECT NO.

72 SHEET OF 89

PLOTTING DATE: 9/12/2016 USER: Travis FranklinFILE NAME: P:\10-140008 Inglewood Drainage\3 CADD\Sheets\P_10-140008_SDDET.dwg

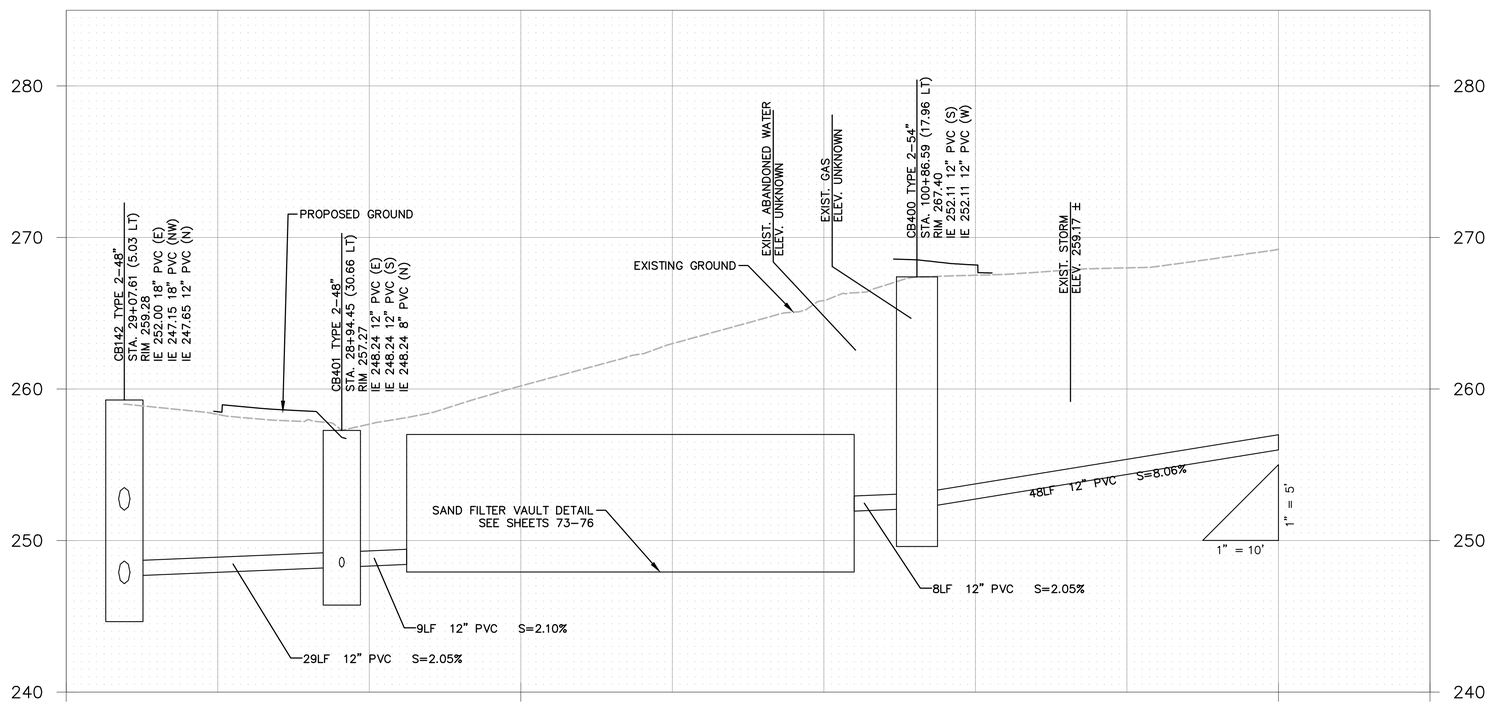
VOID

SEC. 29 , T. 25 N., R. 6 E., W.M.



NOTE:
RESTORE DISTURBED AREAS WITH 18-IN DEEP TOPSOIL COVERED WITH 2-IN WOOD CHIP MULCH.

SCALE: 1" = 10'
0 10 20 30



811
Know what's below.
Call before you dig.

LAURA RUPPERT
STATE OF WASHINGTON
43848
REGISTERED
PROFESSIONAL ENGINEER
4/20/16

SCALE BARS INDICATE SCALE OF FULL-SIZE (22 X 34 INCH) DRAWINGS. FOR REDUCED SIZE DRAWINGS ADJUST SCALE ACCORDINGLY.

NO.	DATE	BY	CKD.	REVISION

City of Sammamish Washington

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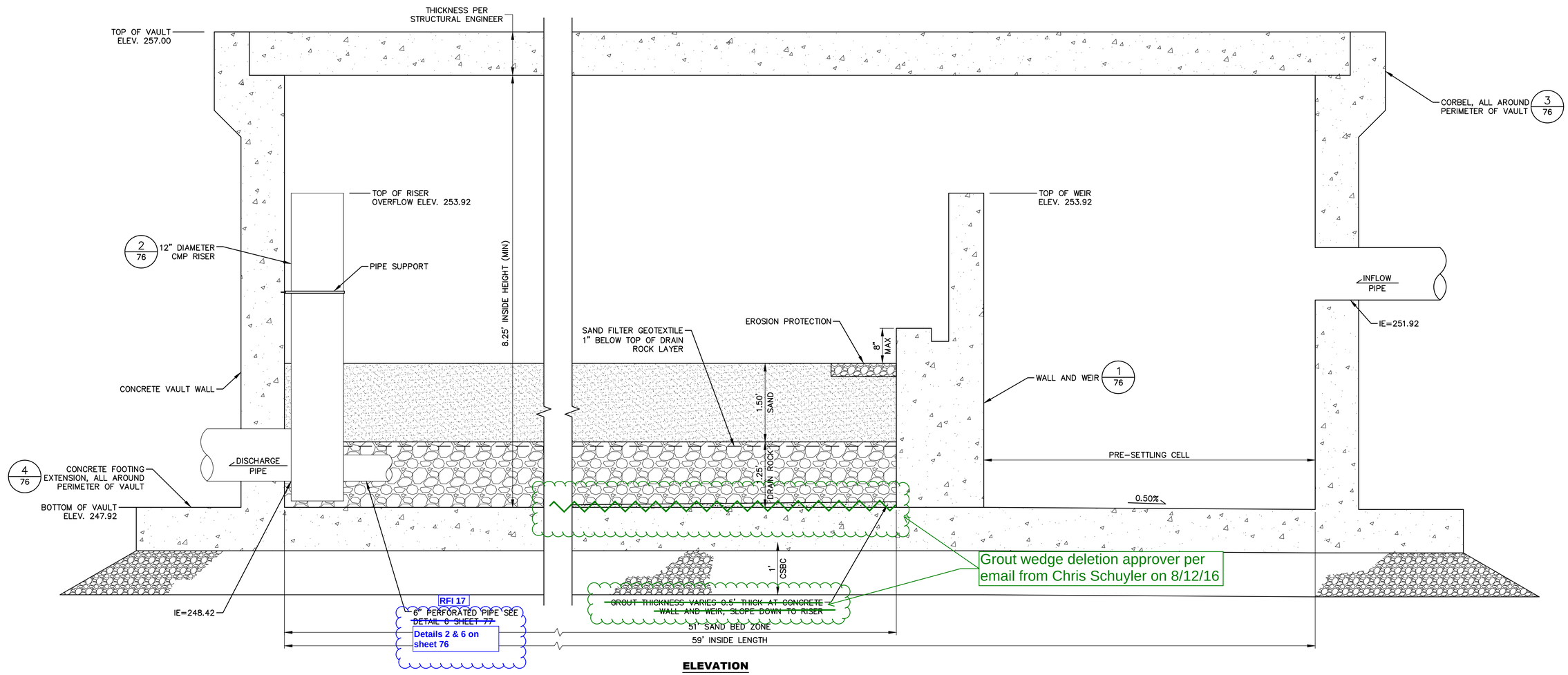
INGLEWOOD HILL STORMWATER AND NON-MOTORIZED IMPROVEMENTS
STORM DRAINAGE DETAILS
SAND FILTER VAULT PLAN AND PROFILE

10-140008
OCI PROJECT NO.

72 SHEET OF 89

PLOTTING DATE: 4/20/2016 USER: Travis FrankirFILE NAME: P:\10-140008 Inglewood Drainage\3 CADD\Sheets\P_10-140008_SDDET.dwg



Grout wedge deletion approver per email from Chris Schuyler on 8/12/16

ELEVATION

1/33, 72 **SAND FILTER VAULT**
N.T.S.

4/20/16

SCALE BARS INDICATE SCALE OF FULL-SIZE (22 X 34 INCH) DRAWINGS. FOR REDUCED SIZE DRAWINGS ADJUST SCALE ACCORDINGLY.

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City of Sammamish Washington

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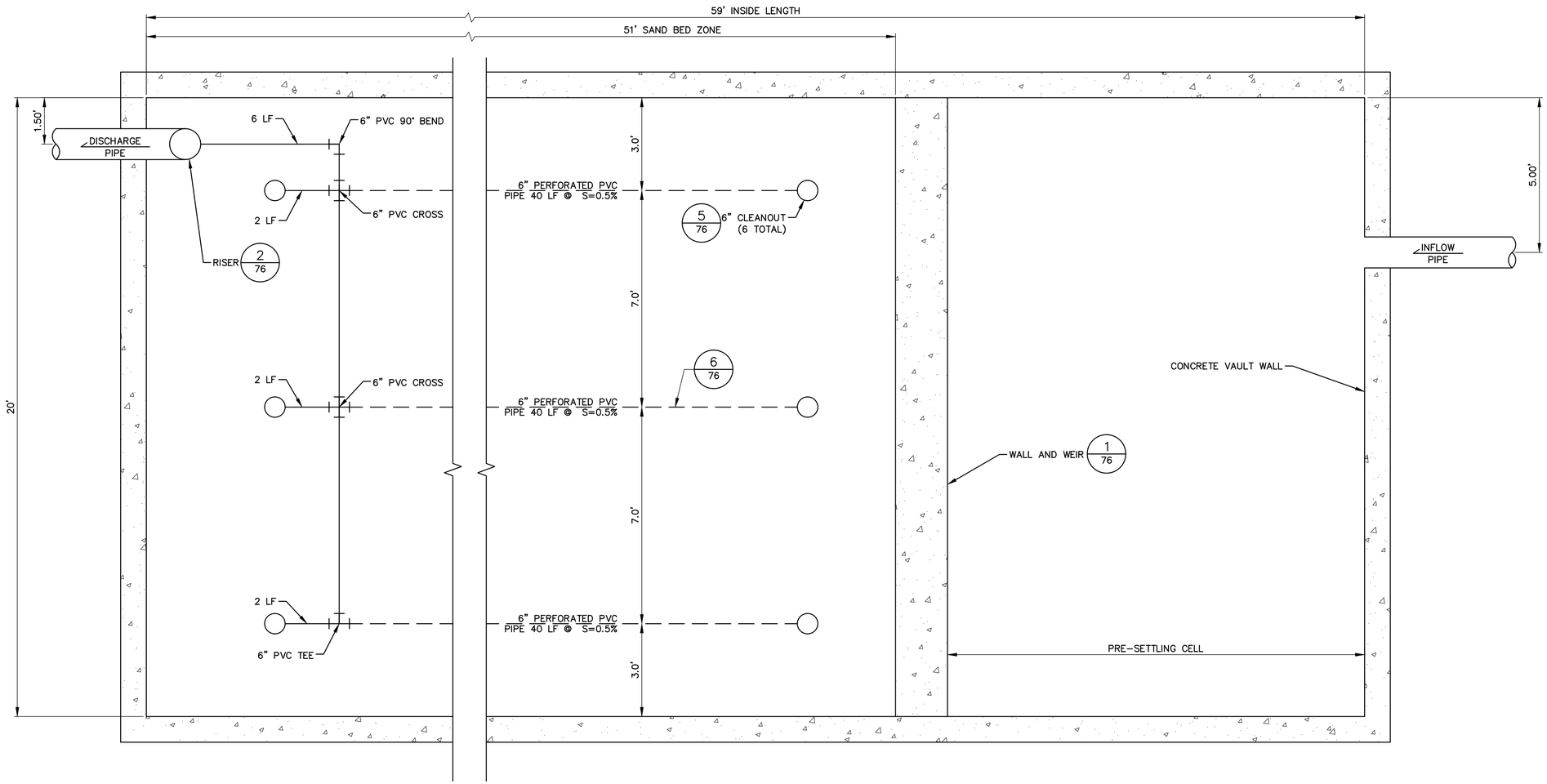
INGLEWOOD HILL STORMWATER AND NON-MOTORIZED IMPROVEMENTS

SAND FILTER VAULT DETAIL

10-140008 OCI PROJECT NO.

73 SHEET OF 89

PLOTTING DATE: 4/20/2016 USER: Travis FranklinFILE NAME: P:\10-140008 Inglewood Drainage\3 CADD\Sheets\P_10-140008_SDDET.dwg



PLAN

1/72 **SAND FILTER VAULT**
N.T.S.

4/20/16

SCALE BARS INDICATE SCALE OF FULL-SIZE (22 X 34 INCH) DRAWINGS. FOR REDUCED SIZE DRAWINGS ADJUST SCALE ACCORDINGLY.

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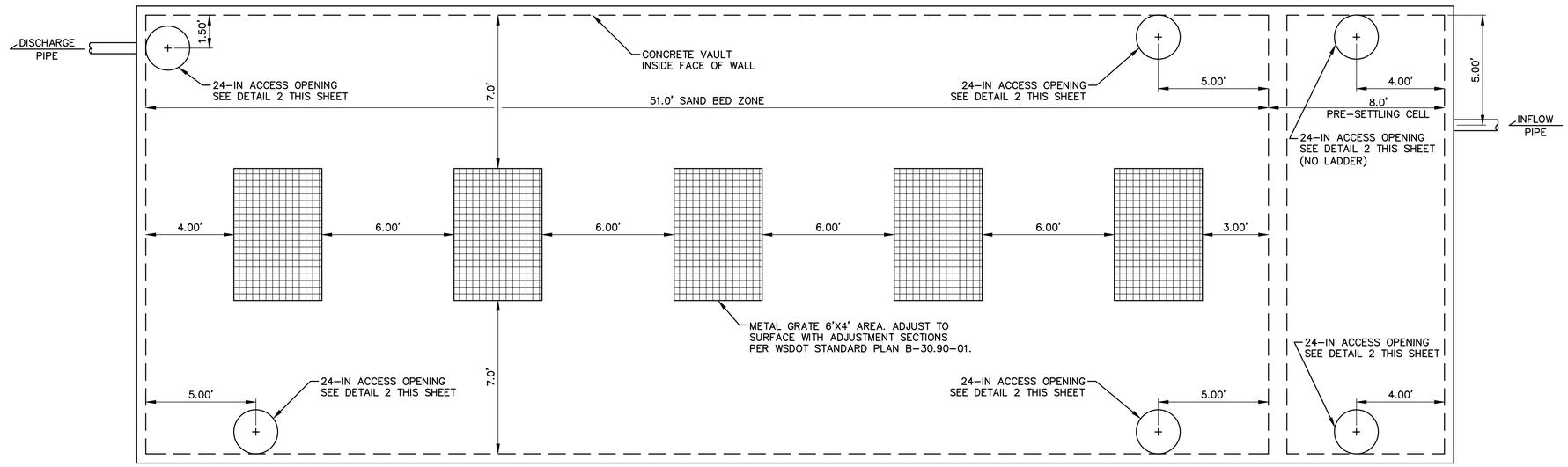
INGLEWOOD HILL STORMWATER AND NON-MOTORIZED IMPROVEMENTS

SAND FILTER VAULT DETAIL

10-140008
OCI PROJECT NO.

74 SHEET OF 89

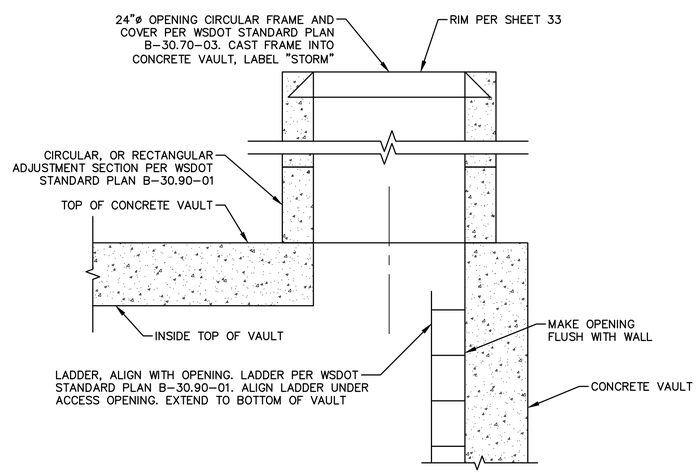
PLOTTING DATE: 4/20/2016 USER: Travis FranklinFILE NAME: P:\10-140008 Inglewood Drainage\3 CADD\Sheets\VP_10-140008_SDDET.dwg



PLAN VIEW - TOP OF VAULT

1 SAND FILTER VAULT - ROOF PLAN

N.T.S.



ELEVATION VIEW

2 24" ACCESS OPENING

N.T.S.

SCALE BARS INDICATE SCALE OF FULL-SIZE (22 X 34 INCH) DRAWINGS. FOR REDUCED SIZE DRAWINGS ADJUST SCALE ACCORDINGLY.

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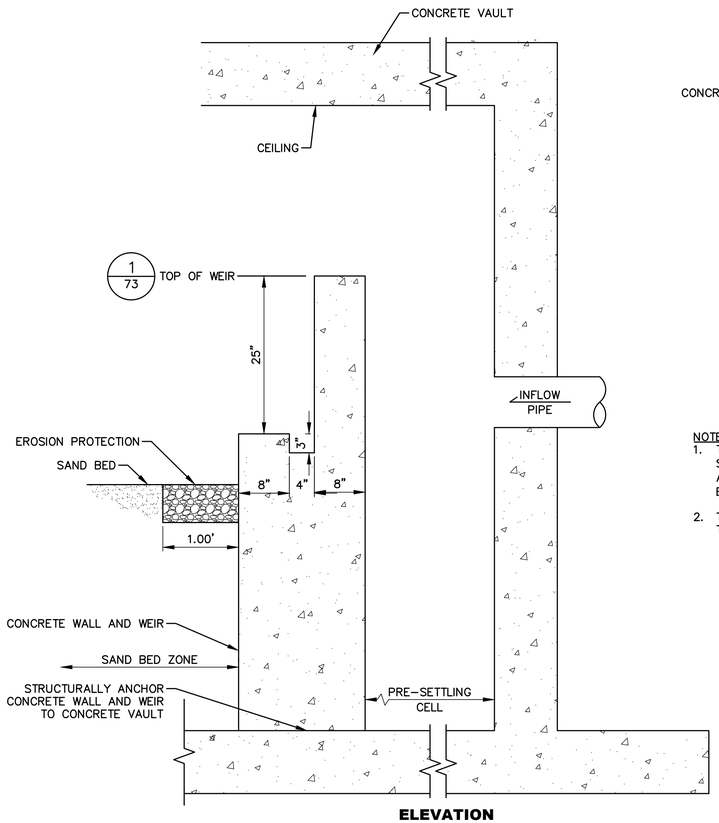
INGLEWOOD HILL STORMWATER AND NON-MOTORIZED IMPROVEMENTS

SAND FILTER VAULT DETAIL

10-140008
OCI PROJECT NO.

SHEET 75 OF 89

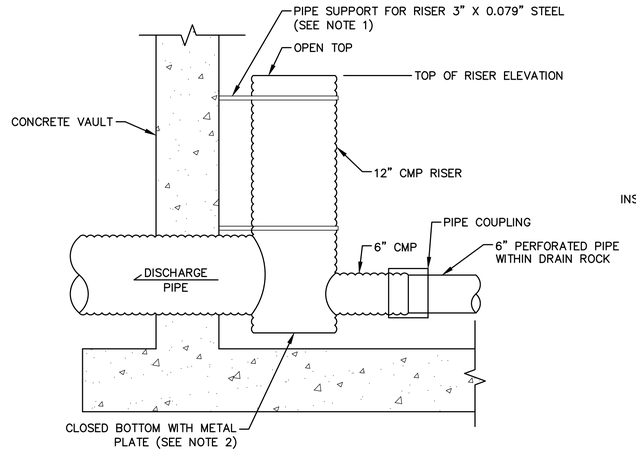
PLOTTING DATE: 4/20/2016 USER: Travis Frankin FILE NAME: P:\10-140008 Inglewood Drainage\3 CADD\Sheets\P_10-140008_SDDET.dwg



ELEVATION

1/73 CONCRETE WALL AND WEIR

N.T.S.



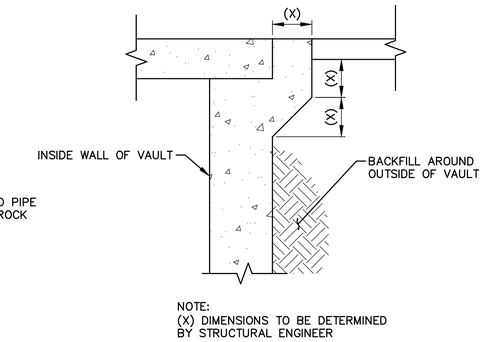
NOTES:

1. THE PIPE SUPPORTS AND THE FLOW RESTRICTOR SHALL BE CONSTRUCTED OF THE SAME MATERIAL AND BE ANCHORED AT A MAXIMUM OF 36" O.C. VERTICAL SPACING. ATTACH THE PIPE SUPPORTS TO THE CONCRETE VAULT WITH 5/8" STAINLESS STEEL EXPANSION BOLTS OR EMBED THE SUPPORTS INTO THE WALL FOR 2".
2. THE BOTTOM OF THE RISER SHALL BE ENCLOSED WITH A STEEL PLATE WELDED TO THE PERIMETER OF THE RISER PIPE; WITH A WATERTIGHT CONTINUOUS WELD.

ELEVATION

2/73 SAND FILTER VAULT RISER

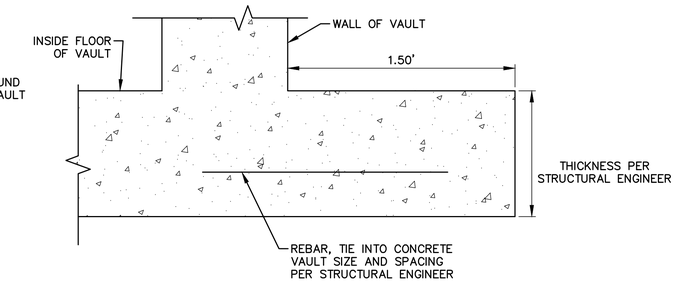
N.T.S.



ELEVATION

3/73 SAND FILTER VAULT CORBEL

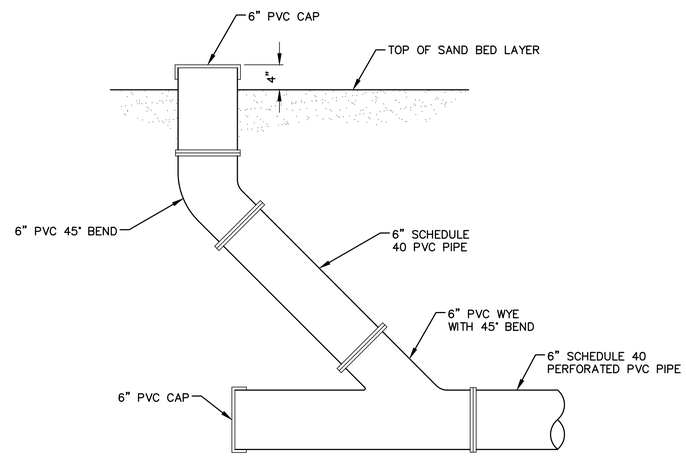
N.T.S.



SECTION

4/73 CONCRETE FOOTING EXTENSION

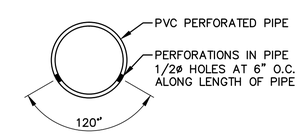
N.T.S.



ELEVATION

5/74 CLEANOUT

N.T.S.



SECTION

6/74 PERFORATED PIPE

N.T.S.

4/20/16

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NO.	DATE	BY	CKD.	REVISION

City of Sammamish Washington

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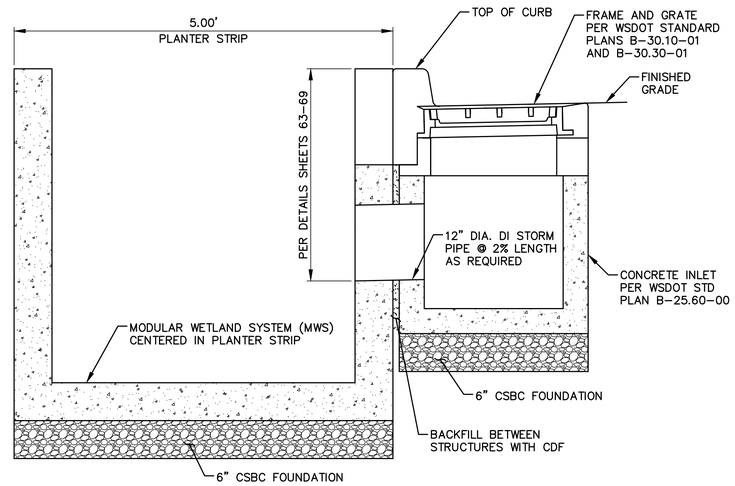
INGLEWOOD HILL STORMWATER AND NON-MOTORIZED IMPROVEMENTS

SAND FILTER VAULT DETAILS

10-140008
OCI PROJECT NO.

76 SHEET OF 89

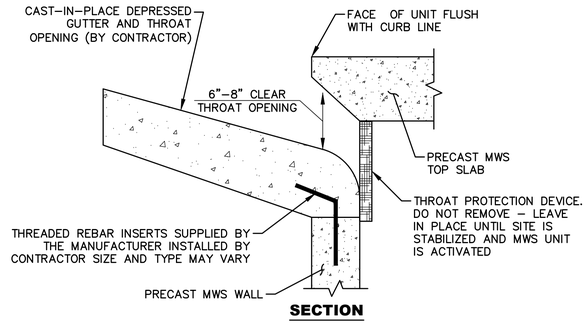
PLOTTING DATE: 4/20/2016 USER: Travis Franklin FILE NAME: P:\10-140008 Inglewood Drainage\3 CADD\Sheets\P_10-140008_SDDET.dwg



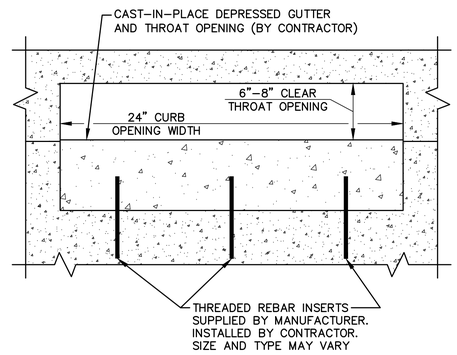
MWS81 MWS101 MWS121 MWS131 MWS141

1/27-48 MODULAR WETLAND SYSTEM AND CATCH BASIN CONNECTION STANDARD DETAIL

N.T.S.



SECTION

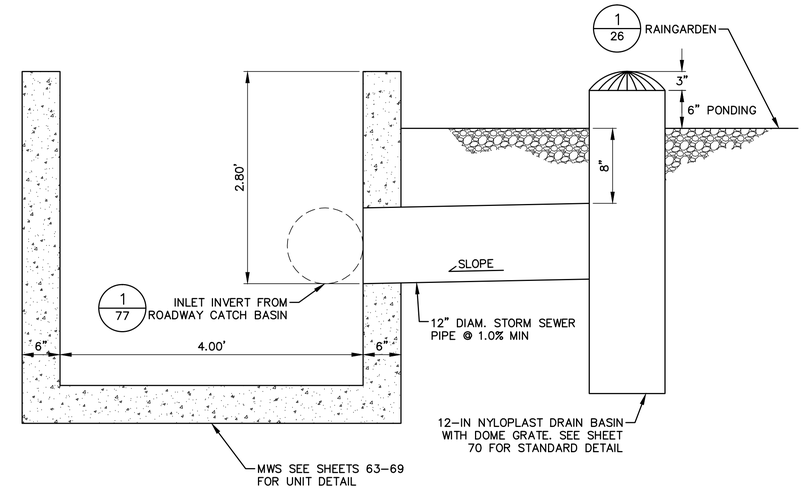


ELEVATION

MWS106 MWS111

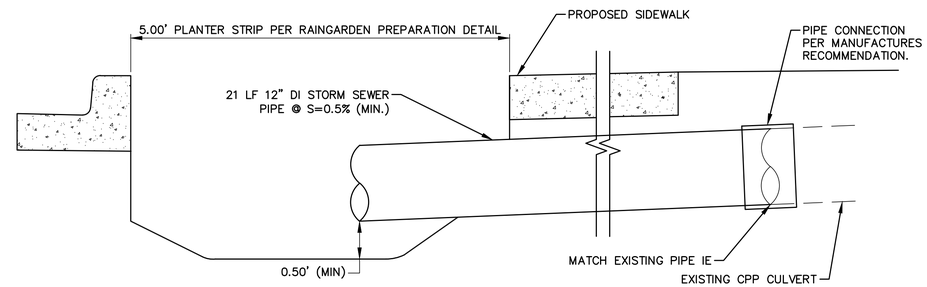
2/27 MODULAR WETLAND SYSTEM CURB INLET

N.T.S.



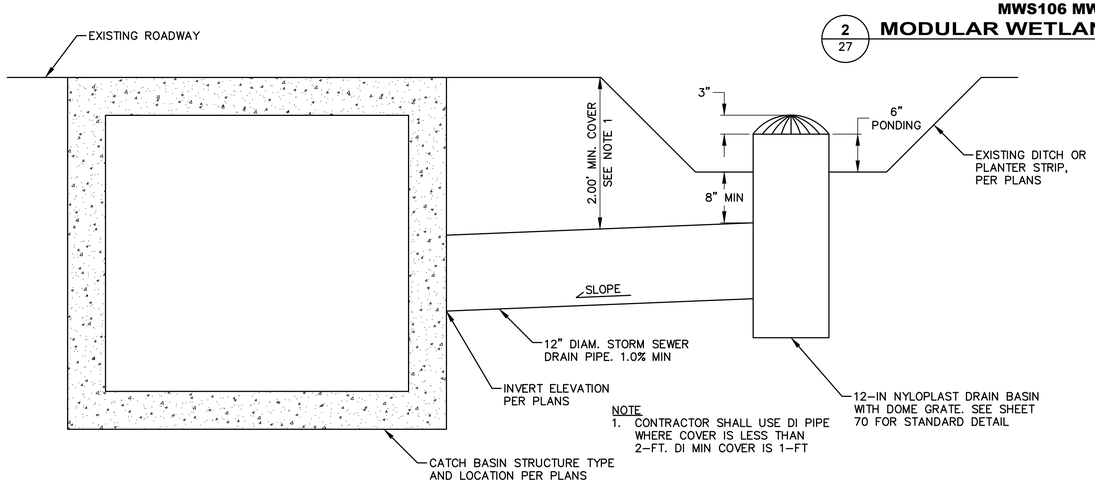
3/29-48 NYLOPLAST DRAIN BASIN CONNECTION TO MWS UNIT

N.T.S.



5/36 EXISTING CULVERT EXTENSION DETAIL

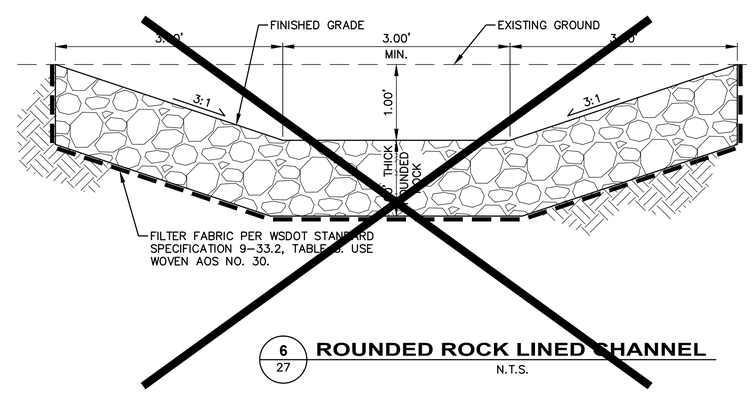
N.T.S.



NOTE
1. CONTRACTOR SHALL USE DI PIPE WHERE COVER IS LESS THAN 2-FT. DI MIN COVER IS 1-FT

4/33-36, 39 NYLOPLAST DRAIN BASIN CONNECTION TO CATCH BASIN STRUCTURE

N.T.S.



NOTE:
ROCK LINED CHANNEL SHALL BE 1 FT THICK.
GRADATION AS FOLLOWS (% BY WEIGHT):
PASSING 12" SQUARE SIEVE: 100%
PASSING 8" SQUARE SIEVE: 85% - 100%
PASSING 3" SQUARE SIEVE: 40% - 60% MAX
PASSING 3/4" SQUARE SIEVE: 0% - 10% MAX

6/27 ROUNDED ROCK LINED CHANNEL

N.T.S.

LAURA RUPLEY, STATE OF WASHINGTON, 43648, REGISTERED PROFESSIONAL ENGINEER

4/20/16

SCALE BARS INDICATE SCALE OF FULL-SIZE (22 X 34 INCH) DRAWINGS. FOR REDUCED SIZE DRAWINGS ADJUST SCALE ACCORDINGLY.

NO.	DATE	BY	CKD.	REVISION

City of Sammamish Washington

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DESIGNED BY: LCR
DRAWN BY: RDH
CHECKED BY: LAT
DATE: FEB. 2016

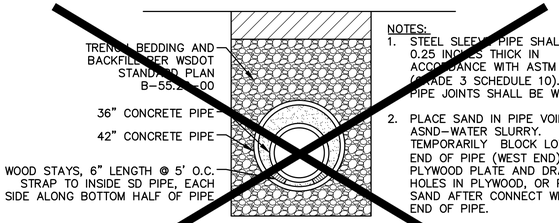
INGLEWOOD HILL STORMWATER AND NON-MOTORIZED IMPROVEMENTS

STORM DRAIN DETAILS

10-140008
OCI PROJECT NO.

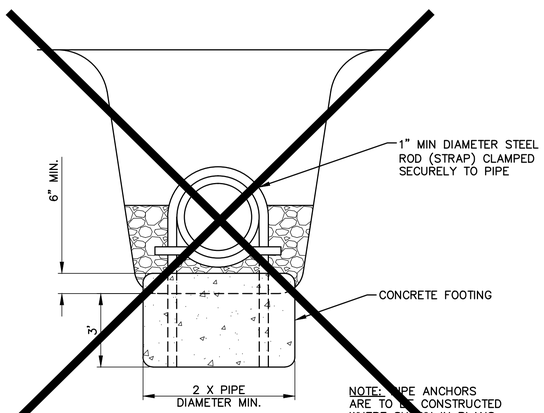
77 SHEET OF 89

PLOTTING DATE: 4/20/2016 USER: Travis Frankli FILE NAME: P:\10-140008 Inglewood Drainage\3 CADD\Sheets\P_10-140008_SDDET.dwg



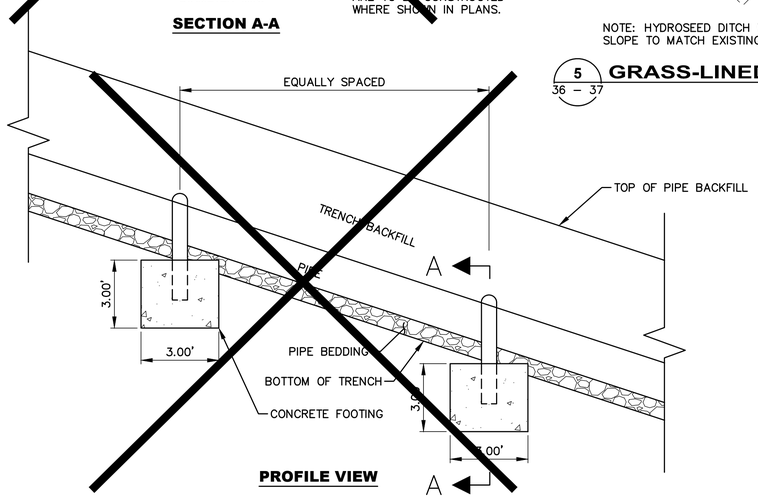
NOTES:
1. STEEL SLEEVE PIPE SHALL BE 0.25 INCHES THICK IN ACCORDANCE WITH ASTM A252 (GRADE 3 SCHEDULE 10). STEEL PIPE JOINTS SHALL BE WELDED.
2. PLACE SAND IN PIPE VOID WITH ASND-WATER SLURRY. TEMPORARILY BLOCK LOWER END OF PIPE (WEST END) WITH PLYWOOD PLATE AND DRAIN HOLES IN PLYWOOD, OR PLACE SAND AFTER CONNECT WEST END OF PIPE.

1 / 27 **STEEL SLEEVE AND PIPE TRENCH**
N.T.S.



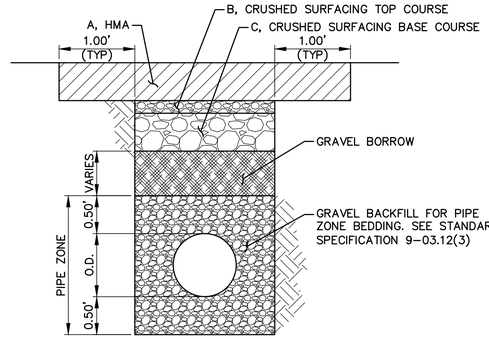
NOTE: PIPE ANCHORS ARE TO BE CONSTRUCTED WHERE SHOWN IN PLANS.

SECTION A-A



PROFILE VIEW

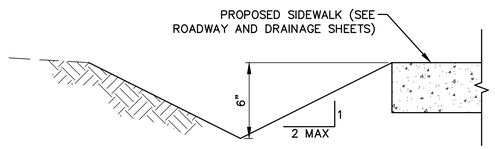
2 / 27 **PIPE ANCHOR**
N.T.S.



TRENCH RESTORATION LIMITS AND DEPTHS					
LOCATION	BEGIN STATION	END STATION	A	B	C
NE INGLEWOOD HILL ROAD	15+00	42+54.00	6-IN	2-IN	5-IN
208TH AVE NE/NE 15TH ST	100+41.48	107+34.90	4-IN HMA OR MATCH EXISTING UP TO 6-IN	2-IN	4-IN
210TH AVE NE	200+32.86	207+17.88	4-IN HMA OR MATCH EXISTING UP TO 6-IN	2-IN	4-IN
211TH AVE NE	300+20.58	306+00.00	4-IN HMA OR MATCH EXISTING UP TO 6-IN	2-IN	4-IN
211TH PL NE	400+50.63	407+63.92	4-IN HMA OR MATCH EXISTING UP TO 6-IN	2-IN	4-IN

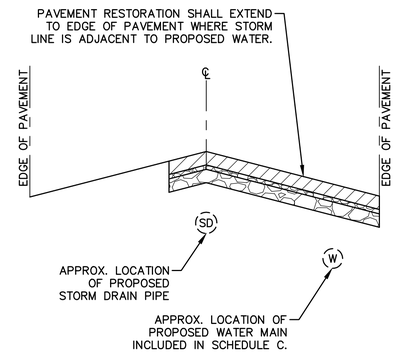
(REFER TO 211TH PL NE TRENCH RESTORATION DETAIL THIS SHEET FOR HORIZONTAL EXTENTS)

4 / 27 – 48 **TRENCH RESTORATION**
N.T.S.

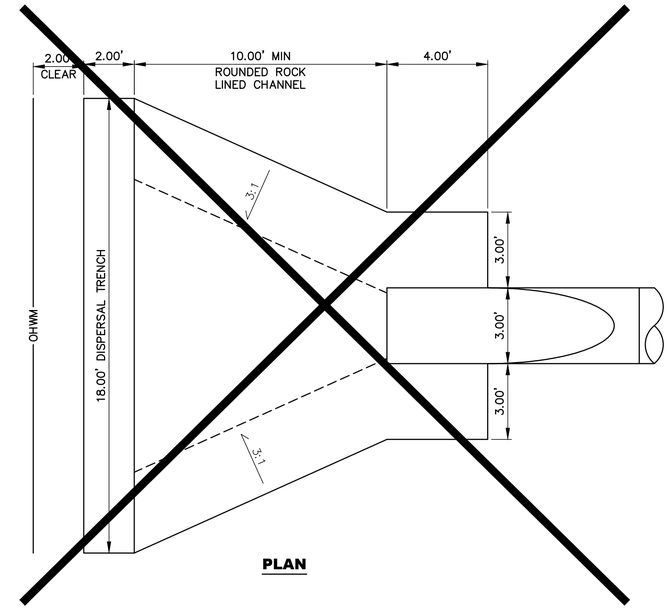


NOTE: HYDROSEED DITCH WITH WILD FLOWER SEED MIX. LONGITUDINAL SLOPE TO MATCH EXISTING TOPOGRAPHY MIN SLOPE SHALL BE 0.5%

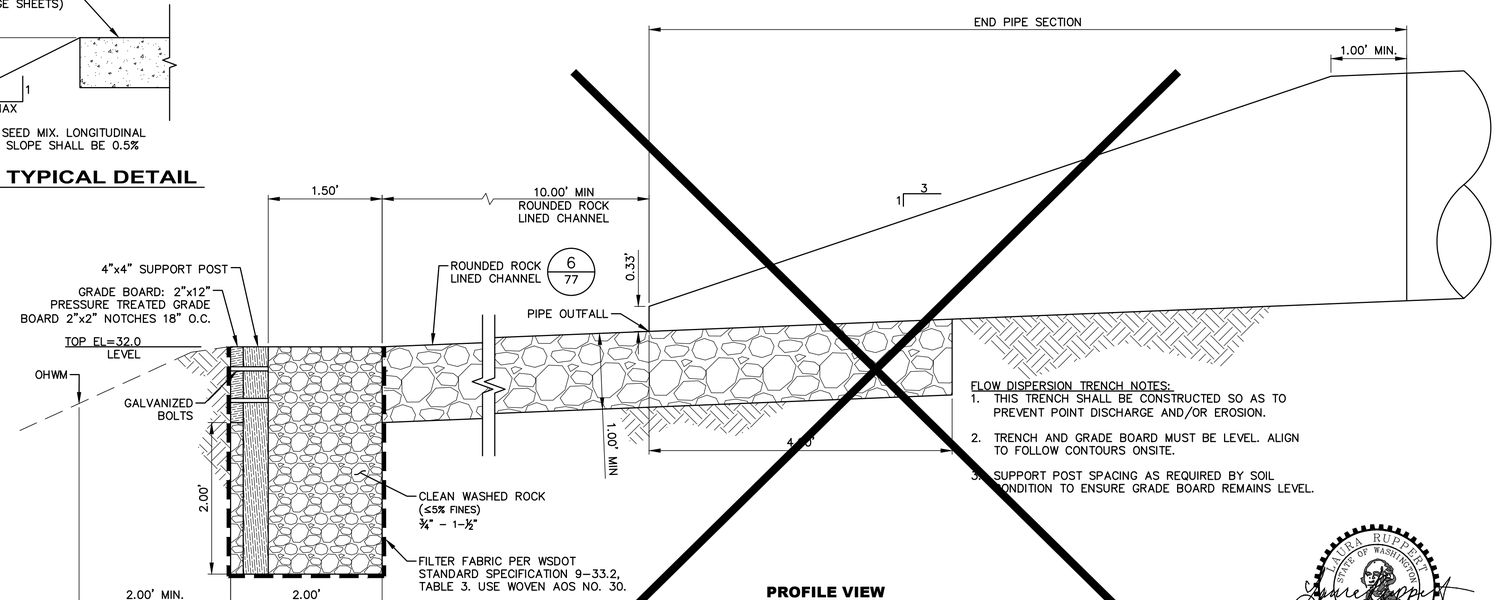
5 / 36 – 37 **GRASS-LINED V-DITCH TYPICAL DETAIL**
N.T.S.



6 / 78 **211TH PL NE PAVEMENT RESTORATION EXTENTS**
N.T.S.



PLAN



PROFILE VIEW

FLOW DISPERSION TRENCH NOTES:
1. THIS TRENCH SHALL BE CONSTRUCTED SO AS TO PREVENT POINT DISCHARGE AND/OR EROSION.
2. TRENCH AND GRADE BOARD MUST BE LEVEL. ALIGN TO FOLLOW CONTOURS ONSITE.
3. SUPPORT POST SPACING AS REQUIRED BY SOIL CONDITION TO ENSURE GRADE BOARD REMAINS LEVEL.

3 / 27 **FLOW DISPERSAL TRENCH AND STORM OUTFALL**
N.T.S.

LAURA RUPPERT
STATE OF WASHINGTON
43848
REGISTERED PROFESSIONAL ENGINEER
4/20/16

SCALE BARS INDICATE SCALE OF FULL-SIZE (22 X 34 INCH) DRAWINGS. FOR REDUCED SIZE DRAWINGS ADJUST SCALE ACCORDINGLY.

NO.	DATE	BY	CKD.	REVISION

City of Sammamish Washington

OSBORN CONSULTING INCORPORATED
OSBORN CONSULTING, INC.
1800 112th Ave. NE, Suite 220E Ph (425) 451-4009
Bellevue, WA. 98004 Fax (425) 451-4901

DESIGNED BY: LCR
DRAWN BY: RDH
CHECKED BY: LAT
DATE: FEB. 2016

INGLEWOOD HILL STORMWATER AND NON-MOTORIZED IMPROVEMENTS

STORM DRAIN DETAILS

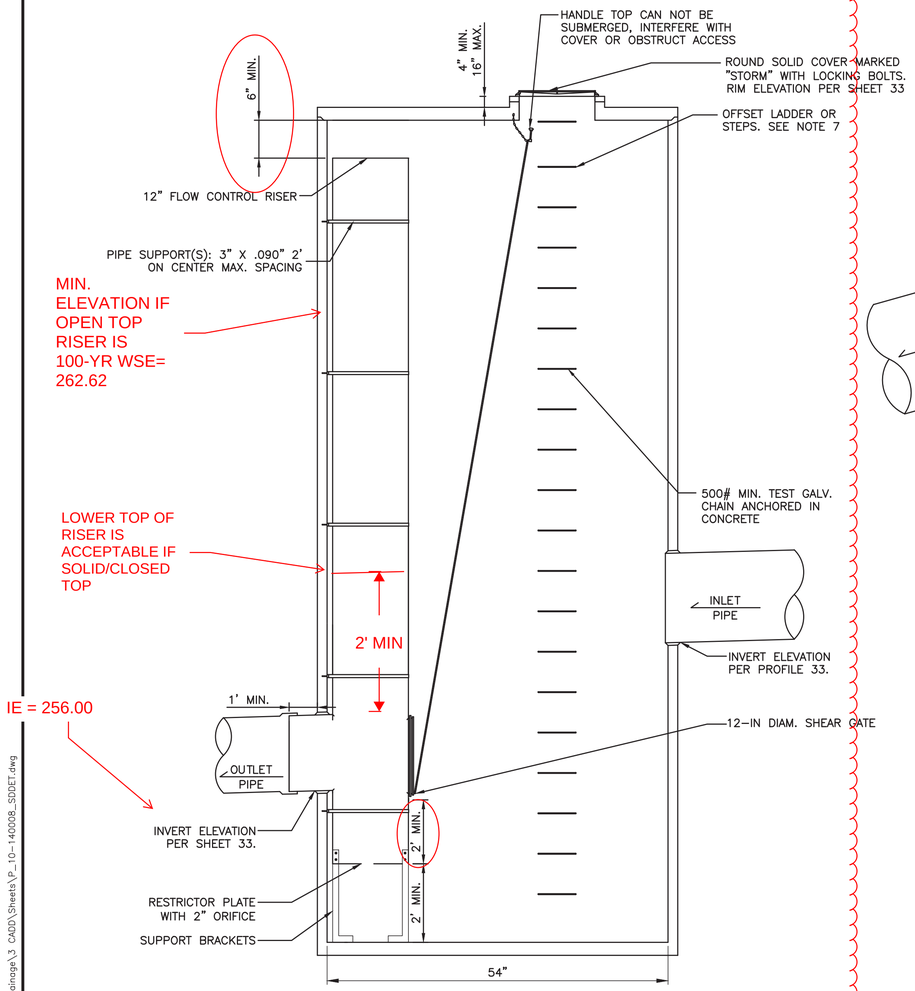
10-140008
OCI PROJECT NO.

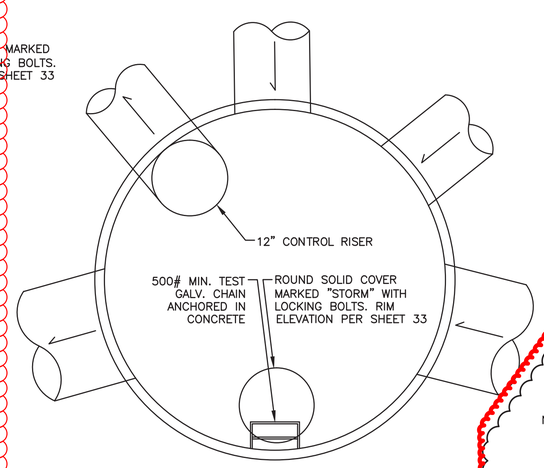
78 SHEET OF 89

PLOTTING DATE: 4/20/2016 USER: Travis Frankl FILE NAME: P:\10-140008 Inglewood Drainage\3 CADD\Sheets\P_10-140008_SDDET.dwg

RFI 006

FWD 05





NOTES:

1. PIPE SIZES AND SLOPES: PER PROFILE ON SHEET 33.
2. OUTLET CAPACITY: NOT LESS THAN COMBINED INLETS.
3. EXCEPT AS SHOWN OR NOTED, FLOW CONTROL STRUCTURE SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE REQUIREMENTS FOR CATCH BASIN 54" MIN. DIAM. TYPE 2.
4. PIPE SUPPORTS, SUPPORT BRACKETS, FASTENERS, AND RESTRICTOR/RISER SHALL BE OF SAME MATERIAL, AND BE ANCHORED AT 3 FT MAX. SPACING BY 5/8 IN. DIAM. STAINLESS STEEL EXPANSION BOLTS OR EMBEDDED 2 IN. IN WALL.
5. THE RESTRICTOR/RISER SHALL BE FABRICATED FROM 0.060 IN. ALUMINUM, OR 0.064 IN. ALUMINIZED STEEL, OR 0.064 IN. GALVANIZED STEEL PIPE; IN ACCORDANCE WITH AASHTO M 36, M 196, M 197 AND M 274. GALVANIZED STEEL SHALL HAVE TREATMENT 1.
6. OUTLET SHALL BE GROUTED INTO THE BELL OF CONCRETE PIPE.
7. LADDER OR STEPS SHALL BE OFFSET SO THAT:
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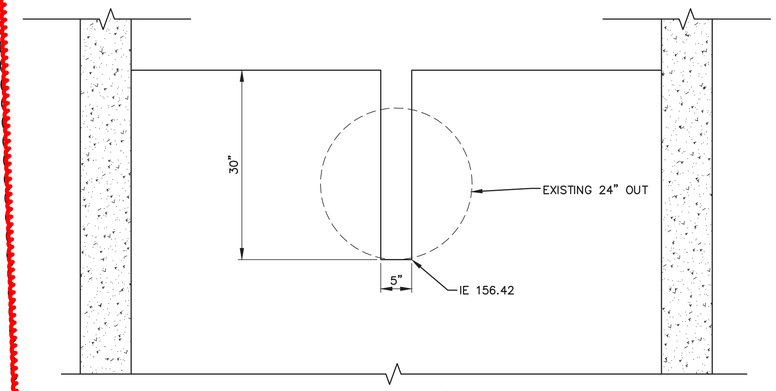
   B. CLIMB DOWN SPACE IS CLEAR OF RISER AND CLEANOUT GATE.
8. IF METAL OUTLET PIPE CONNECTS TO CEMENT CONCRETE PIPE: OUTLET PIPE TO HAVE SMOOTH O.D. EQUAL TO CONCRETE PIPE I.D. LESS 1/4 IN.
9. LOCATE ORIFICE ELBOW TO ASSURE LADDER CLEARANCE.

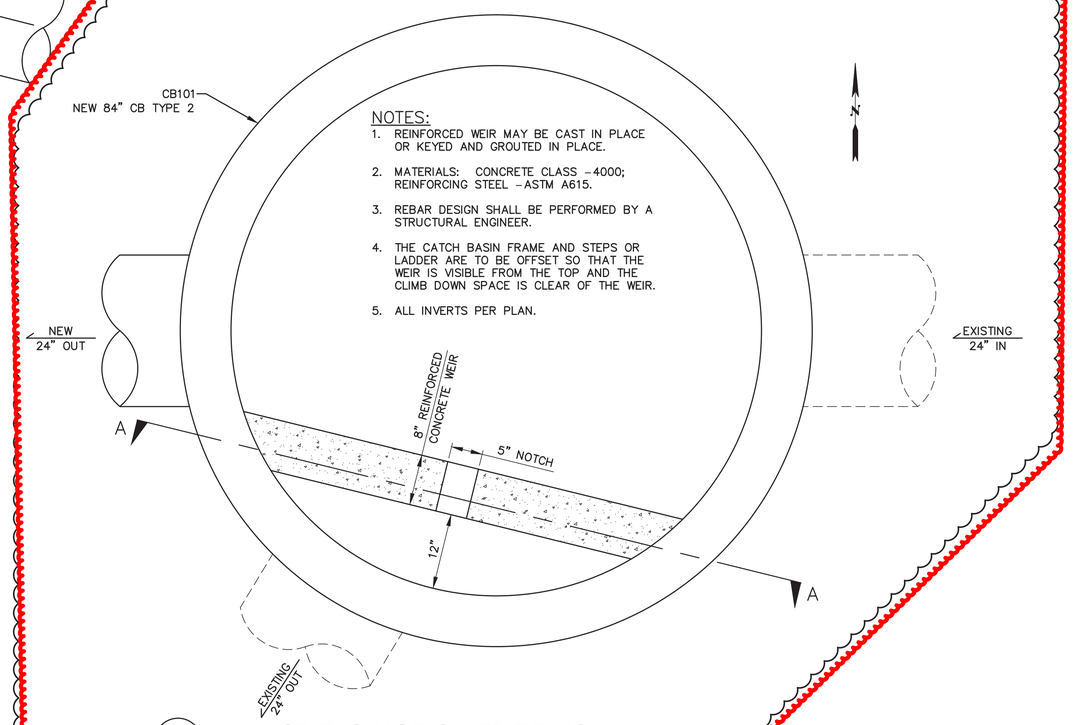
1 / 33 **CB155 FLOW SPLITTER DETAIL**

N.T.S.

5



NOTCH WEIR SECTION A



NOTES:

1. REINFORCED WEIR MAY BE CAST IN PLACE OR KEYED AND GROUTED IN PLACE.
2. MATERIALS: CONCRETE CLASS - 4000; REINFORCING STEEL - ASTM A615.
3. REBAR DESIGN SHALL BE PERFORMED BY A STRUCTURAL ENGINEER.
4. THE CATCH BASIN FRAME AND STEPS OR LADDER ARE TO BE OFFSET SO THAT THE WEIR IS VISIBLE FROM THE TOP AND THE CLIMB DOWN SPACE IS CLEAR OF THE WEIR.
5. ALL INVERTS PER PLAN.

2 / 30 **CB FLOW SPLITTER DETAIL**

N.T.S.

SCALE BARS INDICATE SCALE OF FULL-SIZE (22 X 34 INCH) DRAWINGS. FOR REDUCED SIZE DRAWINGS ADJUST SCALE ACCORDINGLY.

NO.	DATE	BY	CKD.	REVISION
5	8/16/2016	TNF	LR	STORM DRAIN ADJUSTMENTS

City of Sammamish Washington

OSBORN CONSULTING INCORPORATED

OSBORN CONSULTING, INC.
1800 112th Ave. NE, Suite 220E Ph (425) 451-4009
Bellevue, WA. 98004 Fax (425) 451-4901

DESIGNED BY: LCR
DRAWN BY: RDH
CHECKED BY: LAT
DATE: FEB. 2016

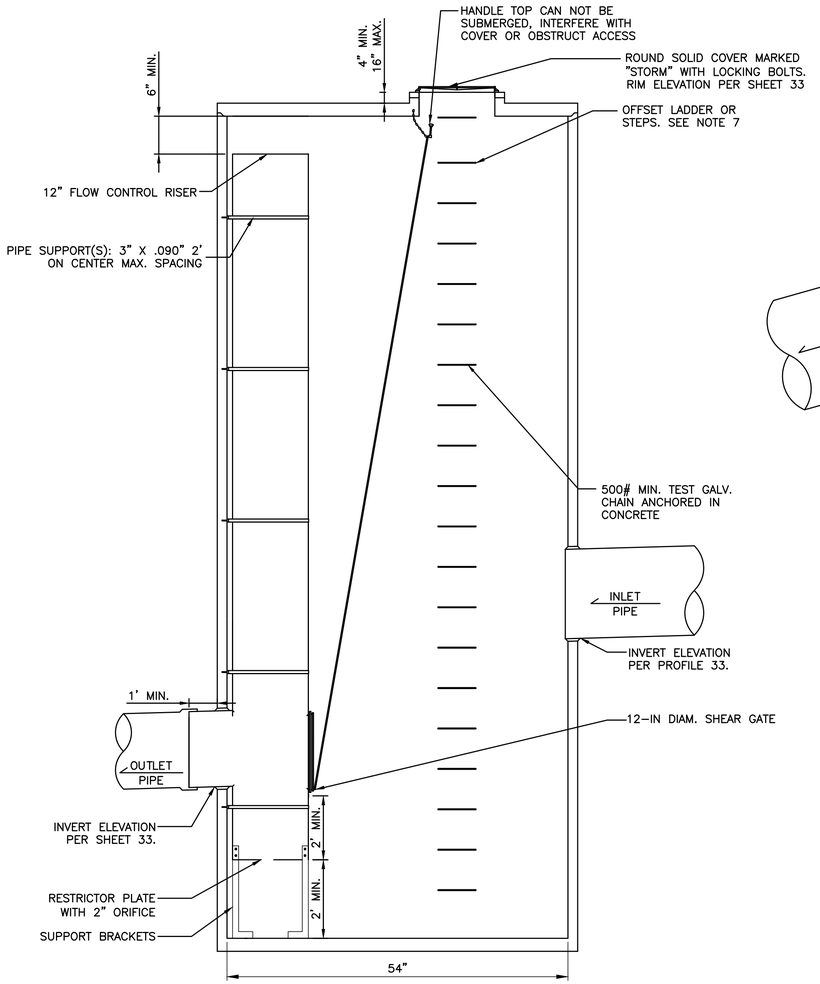
INGLEWOOD HILL STORMWATER AND NON-MOTORIZED IMPROVEMENTS

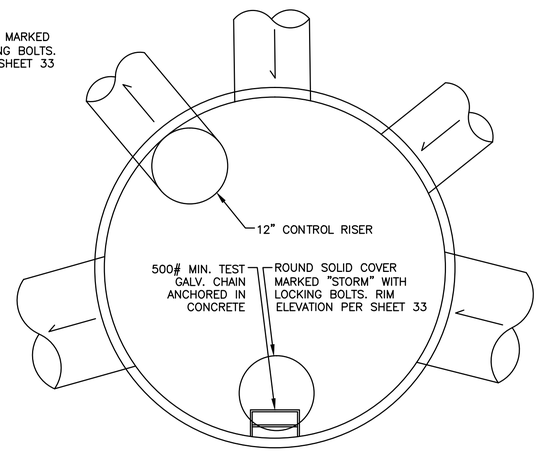
FLOW SPLITTER DETAIL

10-140008 OCI PROJECT NO.

SHEET 79 OF 89

PLOTTING DATE: 8/19/2016 USER: Travis FranklinFILE NAME: P:\10-140008 Inglewood Drainage\3 CADD\Sheets\P_10-140008_SDDET.dwg





NOTES:

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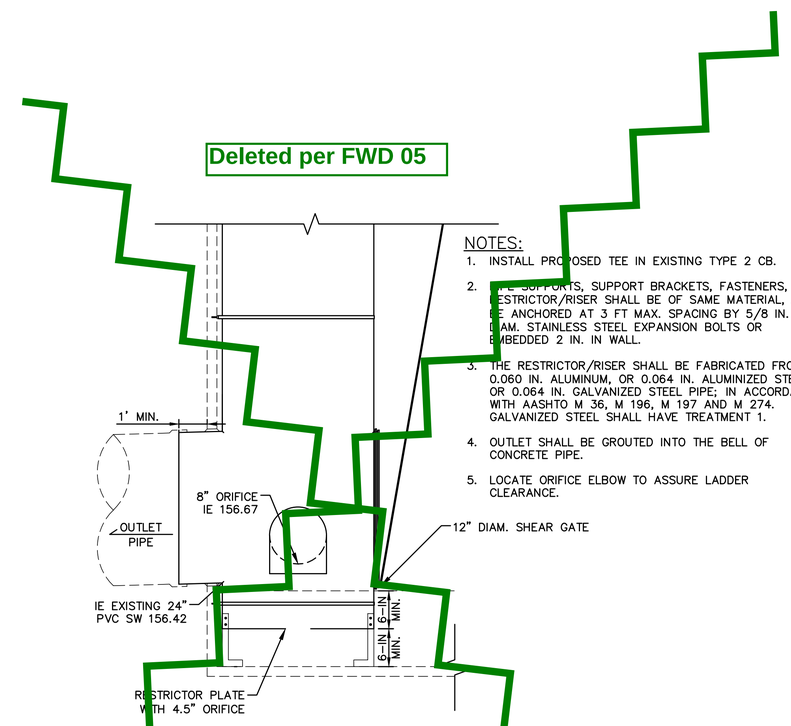
9. LOCATE ORIFICE ELBOW TO ASSURE LADDER CLEARANCE.

1 / 33 **CB155 FLOW SPLITTER DETAIL**

N.T.S.

Deleted per FWD 05



NOTES:

1. INSTALL PROPOSED TEE IN EXISTING TYPE 2 CB.
2. PIPE SUPPORTS, SUPPORT BRACKETS, FASTENERS, AND RESTRICTOR/RISER SHALL BE OF SAME MATERIAL, AND BE ANCHORED AT 3 FT MAX. SPACING BY 5/8 IN. DIAM. STAINLESS STEEL EXPANSION BOLTS OR EMBEDDED 2 IN. IN WALL.
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5. LOCATE ORIFICE ELBOW TO ASSURE LADDER CLEARANCE.

2 / 30 **EXISTING CB FLOW SPLITTER DETAIL**

N.T.S.

LAURA RUBLEVA STATE OF WASHINGTON 43848 REGISTERED PROFESSIONAL ENGINEER

4/20/16

SCALE BARS INDICATE SCALE OF FULL-SIZE (22 X 34 INCH) DRAWINGS. FOR REDUCED SIZE DRAWINGS ADJUST SCALE ACCORDINGLY.

NO.	DATE	BY	CKD.	REVISION

City of Sammamish Washington

OSBORN CONSULTING INCORPORATED

OSBORN CONSULTING, INC.
1800 112th Ave. NE, Suite 220E Ph (425) 451-4009
Bellevue, WA. 98004 Fax (425) 451-4901

DESIGNED BY: LCR
DRAWN BY: RDH
CHECKED BY: LAT
DATE: FEB. 2016

INGLEWOOD HILL STORMWATER AND NON-MOTORIZED IMPROVEMENTS

FLOW SPLITTER DETAIL

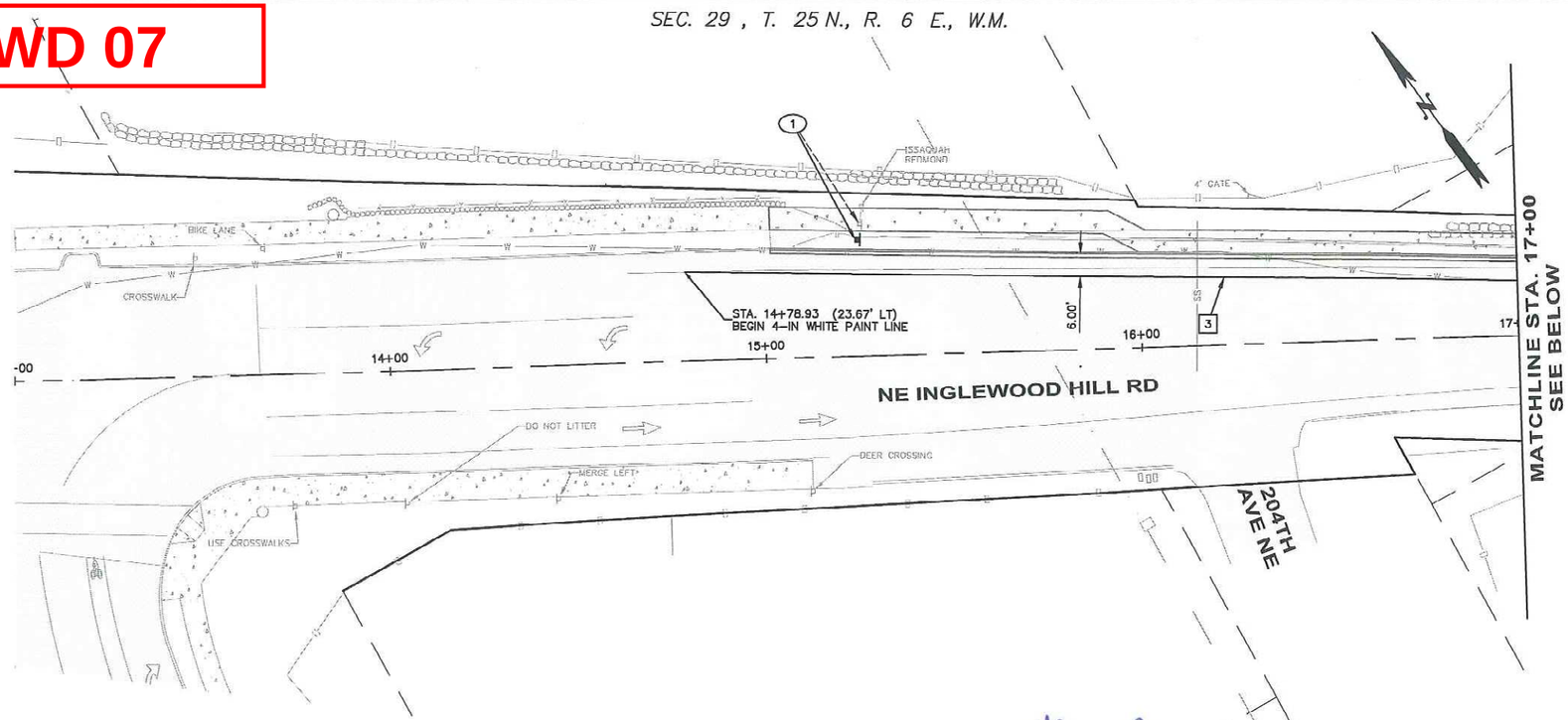
10-140008 OCI PROJECT NO.

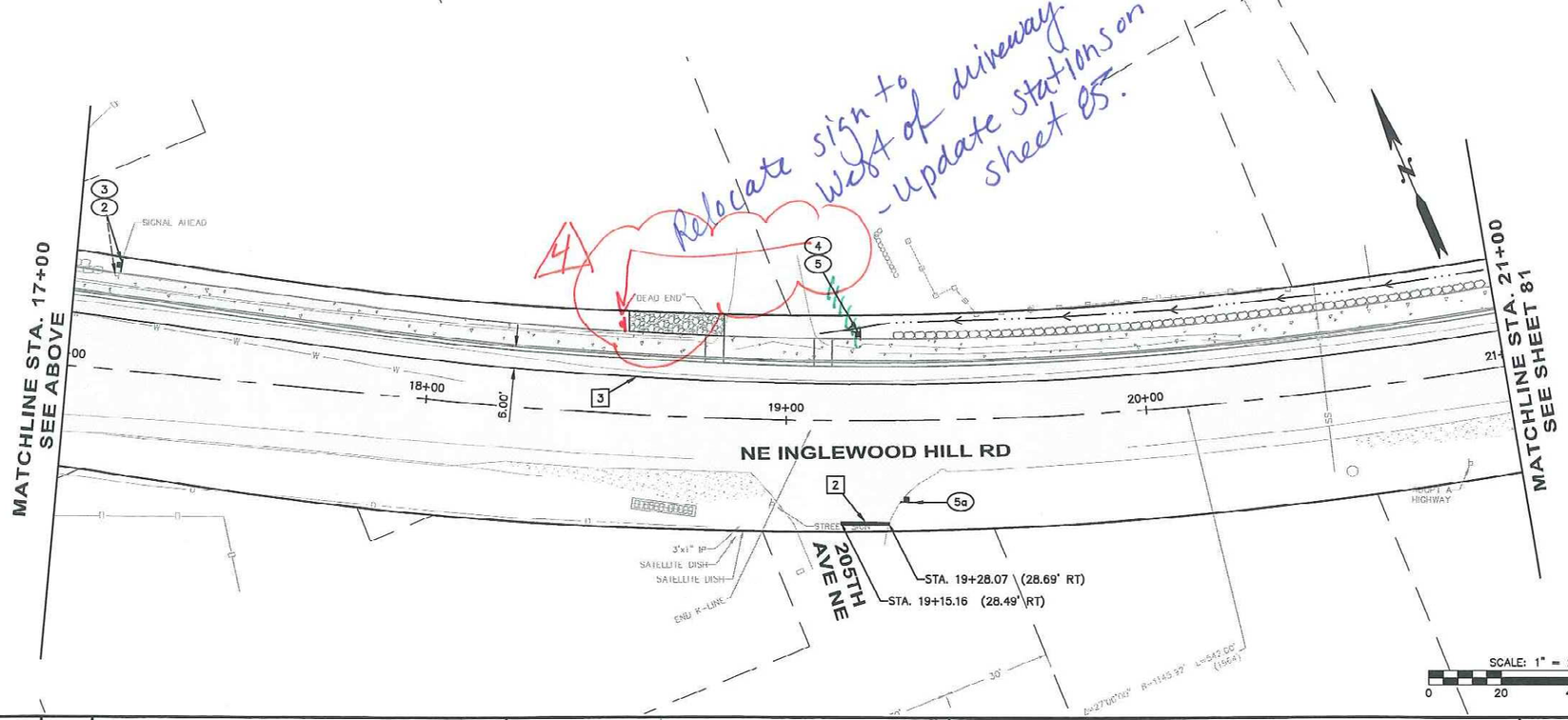
79 SHEET OF 89

PLOTTING DATE: 4/20/2016 USER: Travis Frankin FILE NAME: P:\10-140008 Inglewood Drainage\3 CADD\Sheets\P_10-140008_SDDET.dwg

FWD 07

SEC. 29 , T. 25 N., R. 6 E., W.M.





GENERAL NOTES:

1. SEE SHEET 85 FOR SIGN SCHEDULE.
2. SEE SHEET 85 FOR STREET SIGN INSTALLATION DETAIL.
3. ALL NEW AND RELOCATED SIGNS SHALL BE INSTALLED IN ACCORDANCE TO STANDARD SIGN INSTALLATION DETAIL SEE SHEET 85.

CHANNELIZATION NOTES:

1. CROSSWALK STRIPING PER KING COUNTY FIG. 4-003.
2. 16-IN WHITE PLASTIC STOP LINE PER KING COUNTY FIG. 4-003.
3. 4-IN WHITE PAINT LINE (SOLID FLAT SURFACE LINE).

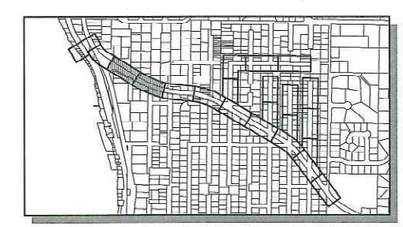
SIGNING LEGEND

- NEW SIGN
- (XX) – NEW SIGN NO.
- EXISTING SIGN

(NEW LOCATION)

EXISTING SIGN ASSEMBLY TO BE REMOVED AND REPLACED

(EXISTING LOCATION)



KEY MAP
SCALE: 1"=1000'

811 Know what's below. Call before you dig.

LAURA RUPPERT STATE OF WASHINGTON 43848 REGISTERED PROFESSIONAL ENGINEER
4/20/16

SCALE BARS INDICATE SCALE OF FULL-SIZE (22 X 34 INCH) DRAWINGS. FOR REDUCED SIZE DRAWINGS ADJUST SCALE ACCORDINGLY.

NO.	DATE	BY	CKD.	REVISION
				4) Property Restoration at 19+20

City of Sammamish

OSBORN CONSULTING INCORPORATED

OSBORN CONSULTING, INC.
1800 112th Ave. NE, Suite 220E Ph (425) 451-4009
Bellevue, WA. 98004 Fax (425) 451-4901

DESIGNED BY: LCR
DRAWN BY: RDH
CHECKED BY: LAT
DATE: FEB. 2016

INGLEWOOD HILL STORMWATER AND NON-MOTORIZED IMPROVEMENTS
CHANNELIZATION AND SIGNING
STA. 13+00 TO STA. 21+00

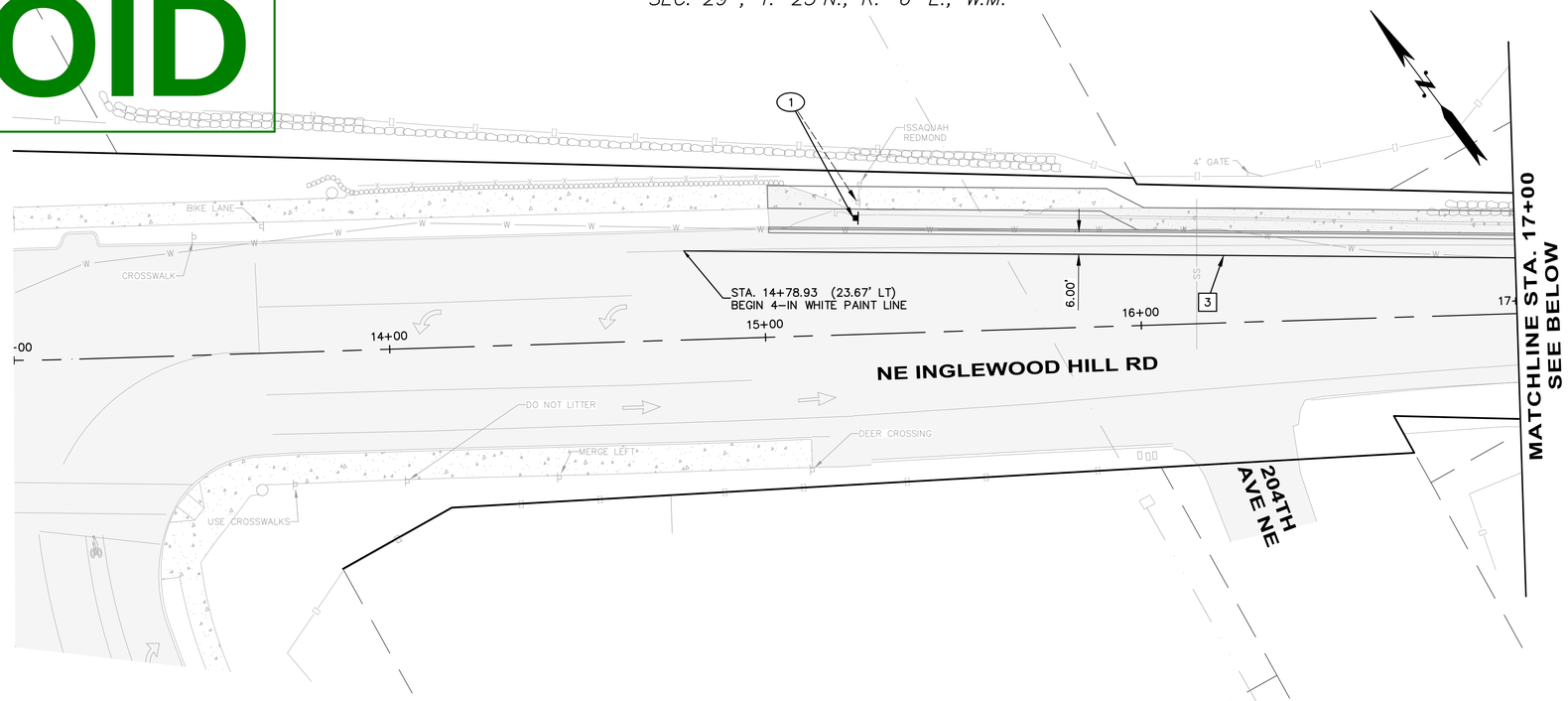
10-140008
OCI PROJECT NO.

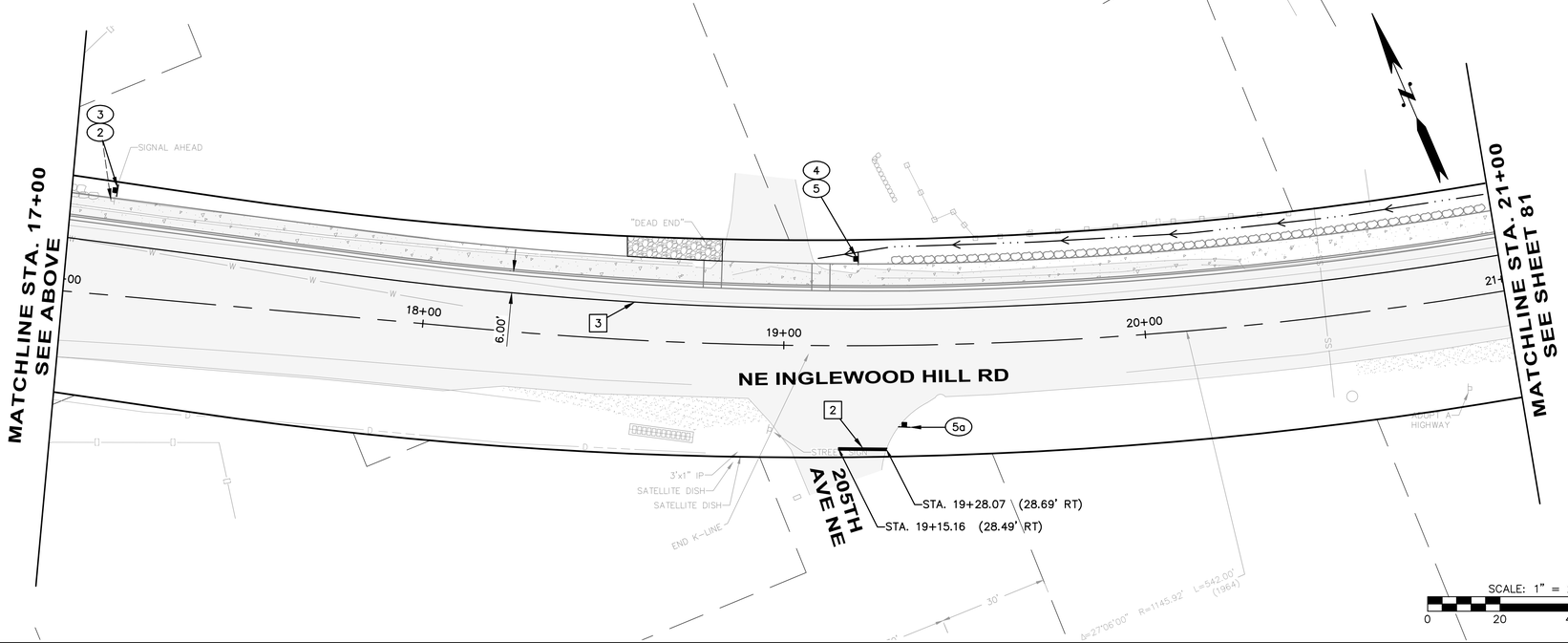
80 SHEET OF 89

PLOTTING DATE: 3/1/2016 USER: Travis Franklin FILE NAME: P:\10-140308 Inglewood Drainage\3 CADD\Sheets\P_10-140008_CH01.dwg

VOID

SEC. 29 , T. 25 N., R. 6 E., W.M.





GENERAL NOTES:

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CHANNELIZATION NOTES:

1. CROSSWALK STRIPING PER KING COUNTY FIG. 4-003.
2. 16-IN WHITE PLASTIC STOP LINE PER KING COUNTY FIG. 4-003.
3. 4-IN WHITE PAINT LINE (SOLID FLAT SURFACE LINE).

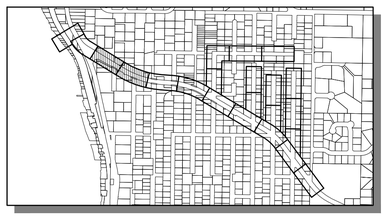
SIGNING LEGEND

- NEW SIGN
- (XX) – NEW SIGN NO.
- EXISTING SIGN

(NEW LOCATION)

EXISTING SIGN ASSEMBLY TO BE REMOVED AND REPLACED

(EXISTING LOCATION)



KEY MAP
SCALE: 1"=1000'

811 Know what's below. Call before you dig.

LAURA RUBERT STATE OF WASHINGTON 43848 REGISTERED PROFESSIONAL ENGINEER
4/20/16

SCALE BARS INDICATE SCALE OF FULL-SIZE (22 X 34 INCH) DRAWINGS. FOR REDUCED SIZE DRAWINGS ADJUST SCALE ACCORDINGLY.

NO.	DATE	BY	CKD.	REVISION

City of Sammamish Washington

OSBORN CONSULTING INCORPORATED

OSBORN CONSULTING, INC.
1800 112th Ave. NE, Suite 220E Ph (425) 451-4009
Bellevue, WA. 98004 Fax (425) 451-4901

DESIGNED BY: LCR
DRAWN BY: RDH
CHECKED BY: LAT
DATE: FEB. 2016

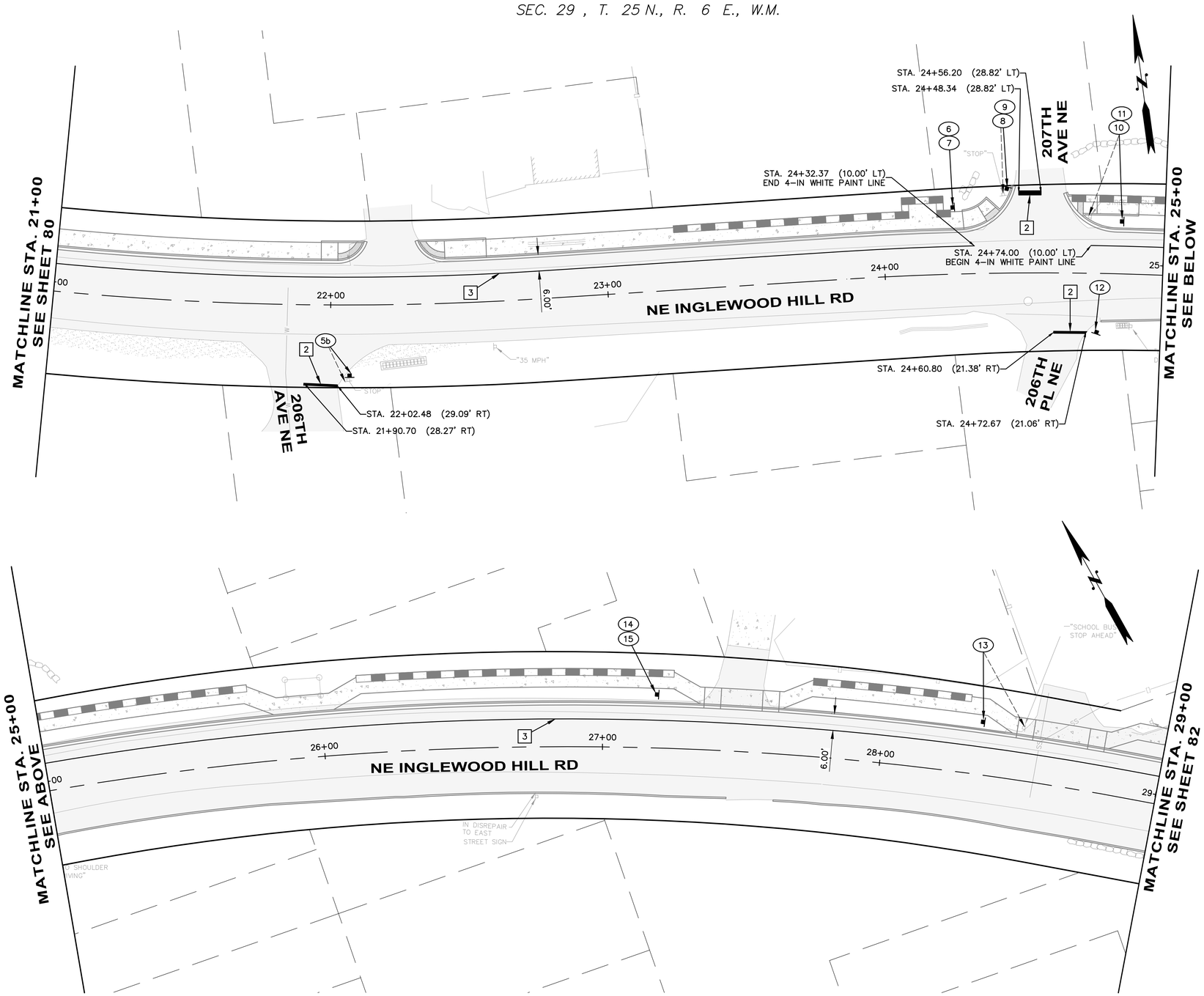
INGLEWOOD HILL STORMWATER AND NON-MOTORIZED IMPROVEMENTS
CHANNELIZATION AND SIGNING
STA. 13+00 TO STA. 21+00

10-140008
OCI PROJECT NO.

80 SHEET OF 89

PLOTTING DATE: 3/1/2016 USER: Travis Franklin FILE NAME: P:\10-140008 Inglewood Drainage\3 CADD\Sheets\P_10-140008_CH01.dwg

SEC. 29 , T. 25 N., R. 6 E., W.M.



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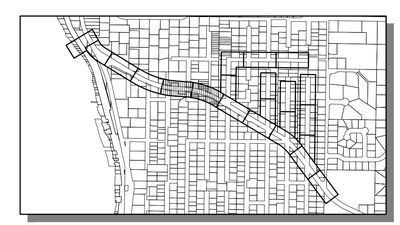
SIGNING LEGEND

- NEW SIGN
- XX – NEW SIGN NO.
- EXISTING SIGN
- (NEW LOCATION)
- EXISTING SIGN ASSEMBLY TO BE REMOVED AND REPLACED
- (EXISTING LOCATION)



KEY MAP
SCALE: 1"=1000'

811
Know what's below.
Call before you dig.

LAURA RUPPERT
STATE OF WASHINGTON
43848
REGISTERED PROFESSIONAL ENGINEER
4/20/16

SCALE: 1" = 20'
0 20 40 60

SCALE BARS INDICATE SCALE OF FULL-SIZE (22 X 34 INCH) DRAWINGS. FOR REDUCED SIZE DRAWINGS ADJUST SCALE ACCORDINGLY.

NO.	DATE	BY	CKD.	REVISION

City of Sammamish Washington

OSBORN CONSULTING INCORPORATED
OSBORN CONSULTING, INC.
1800 112th Ave. NE, Suite 220E Ph (425) 451-4009
Bellevue, WA. 98004 Fax (425) 451-4901

DESIGNED BY: LCR
DRAWN BY: RDH
CHECKED BY: LAT
DATE: FEB. 2016

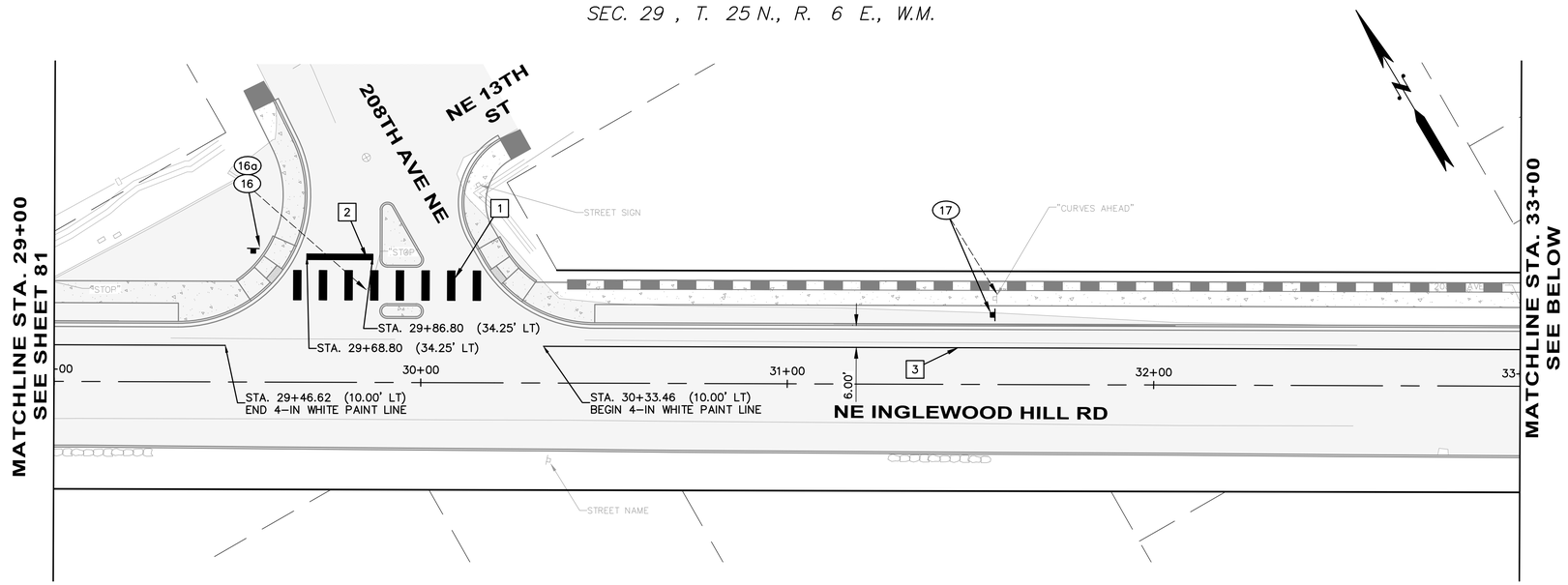
INGLEWOOD HILL STORMWATER AND NON-MOTORIZED IMPROVEMENTS
CHANNELIZATION AND SIGNING
STA. 21+00 TO STA. 29+00

10-140008
OCI PROJECT NO.

81 SHEET
89 OF

PLOTTING DATE: 3/1/2016 USER: Travis FranklinFILE NAME: P:\10-140008 Inglewood Drainage\3 CADD\Sheets\P_10-140008_CH01.dwg

SEC. 29 , T. 25 N., R. 6 E., W.M.



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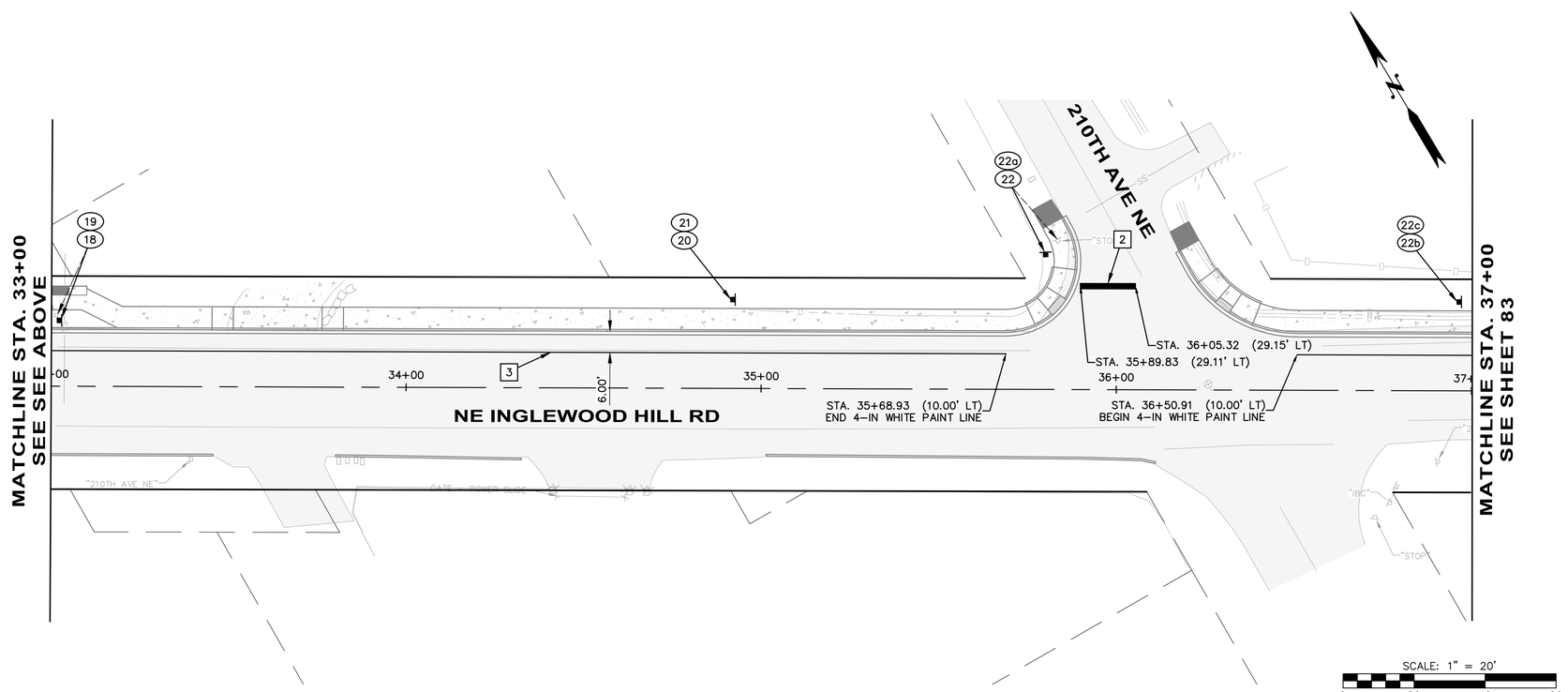
SIGNING LEGEND

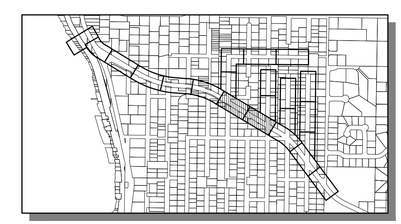
- NEW SIGN
- (XX) – NEW SIGN NO.
- EXISTING SIGN

(NEW LOCATION)

EXISTING SIGN ASSEMBLY TO BE REMOVED AND REPLACED

(EXISTING LOCATION)





KEY MAP
SCALE: 1"=1000'

Know what's below.
Call before you dig.

LAURA RUPPERT
STATE OF WASHINGTON
43648
REGISTERED PROFESSIONAL ENGINEER
4/20/16

SCALE: 1" = 20'
0 20 40 60

SCALE BARS INDICATE SCALE OF FULL-SIZE (22 X 34 INCH) DRAWINGS. FOR REDUCED SIZE DRAWINGS ADJUST SCALE ACCORDINGLY.

NO.	DATE	BY	CKD.	REVISION

City of Sammamish Washington

OSBORN CONSULTING INCORPORATED

OSBORN CONSULTING, INC.
1800 112th Ave. NE, Suite 220E Ph (425) 451-4009
Bellevue, WA. 98004 Fax (425) 451-4901

DESIGNED BY: LCR
DRAWN BY: RDH
CHECKED BY: LAT
DATE: FEB. 2016

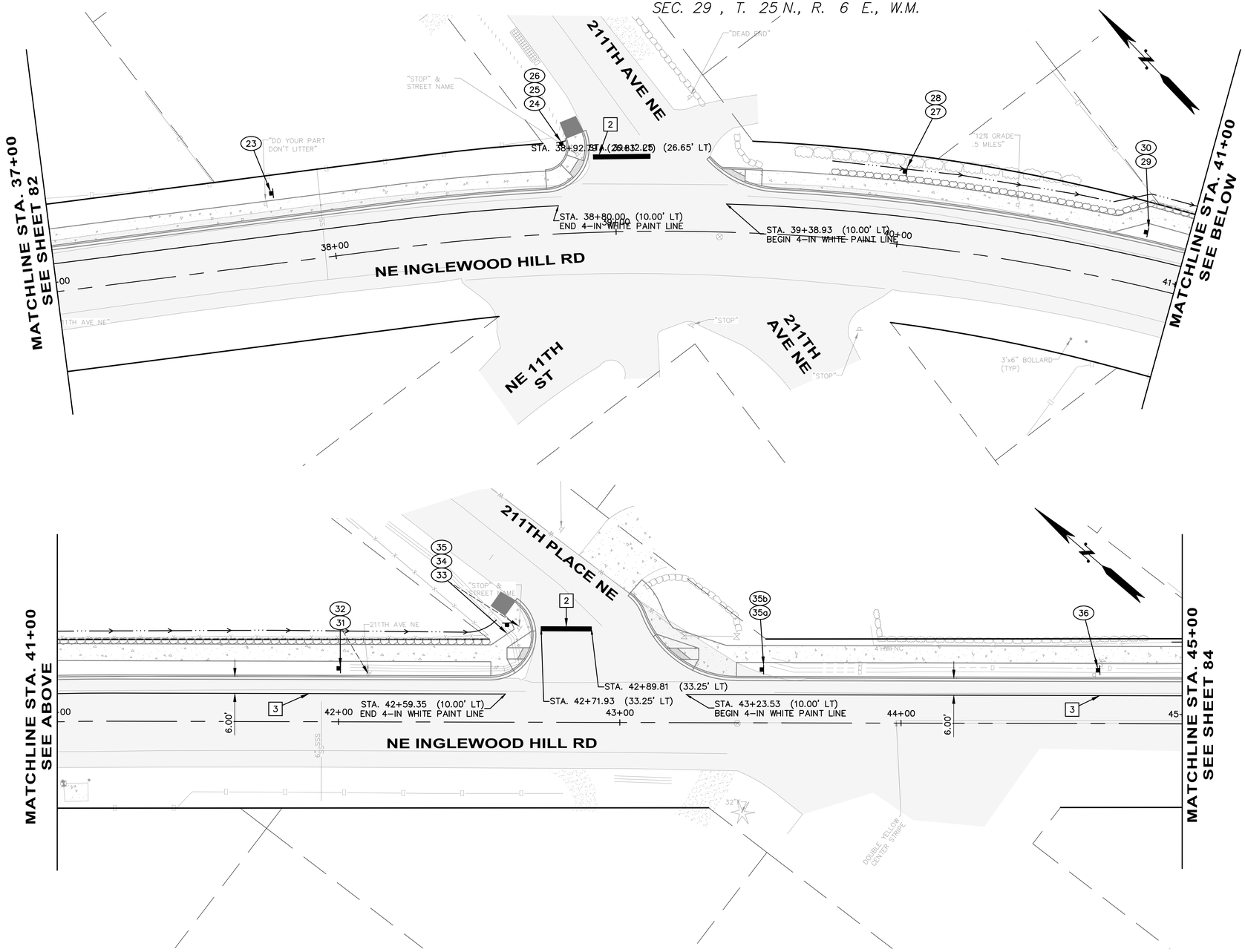
INGLEWOOD HILL STORMWATER AND NON-MOTORIZED IMPROVEMENTS
CHANNELIZATION AND SIGNING
STA. 29+00 TO STA. 37+00

10-140008
OCI PROJECT NO.

82 SHEET OF 89

PLOTTING DATE: 3/1/2016 USER: Travis FranklinFILE NAME: P:\10-140008 Inglewood Drainage\3 CADD\Sheets\P_10-140008_CH01.dwg

SEC. 29 , T. 25 N., R. 6 E., W.M.



GENERAL NOTES:

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CHANNELIZATION NOTES:

1. CROSSWALK STRIPING PER KING COUNTY FIG. 4–003.
2. 16–IN WHITE PLASTIC STOP LINE PER KING COUNTY FIG. 4–003.
3. 4–IN WHITE PAINT LINE (SOLID FLAT SURFACE LINE).

SIGNING LEGEND

– NEW SIGN

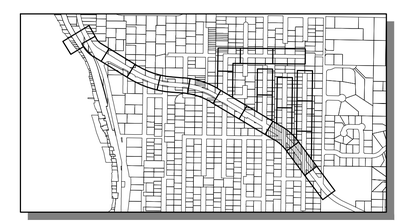
(XX) – NEW SIGN NO.

– EXISTING SIGN

(NEW LOCATION)

EXISTING SIGN ASSEMBLY TO BE REMOVED AND REPLACED

(EXISTING LOCATION)



KEY MAP
SCALE: 1"=1000'

Know what's below. Call before you dig.

LAURA RUBLEE STATE OF WASHINGTON 43848 REGISTERED PROFESSIONAL ENGINEER
4/20/16

SCALE: 1" = 20'
0 20 40 60

SCALE BARS INDICATE SCALE OF FULL-SIZE (22 X 34 INCH) DRAWINGS. FOR REDUCED SIZE DRAWINGS ADJUST SCALE ACCORDINGLY.

NO.	DATE	BY	CKD.	REVISION

City of Sammamish Washington

OSBORN CONSULTING INCORPORATED

OSBORN CONSULTING, INC.
1800 112th Ave. NE, Suite 220E Ph (425) 451–4009
Bellevue, WA. 98004 Fax (425) 451–4901

DESIGNED BY: LCR
DRAWN BY: RDH
CHECKED BY: LAT
DATE: FEB. 2016

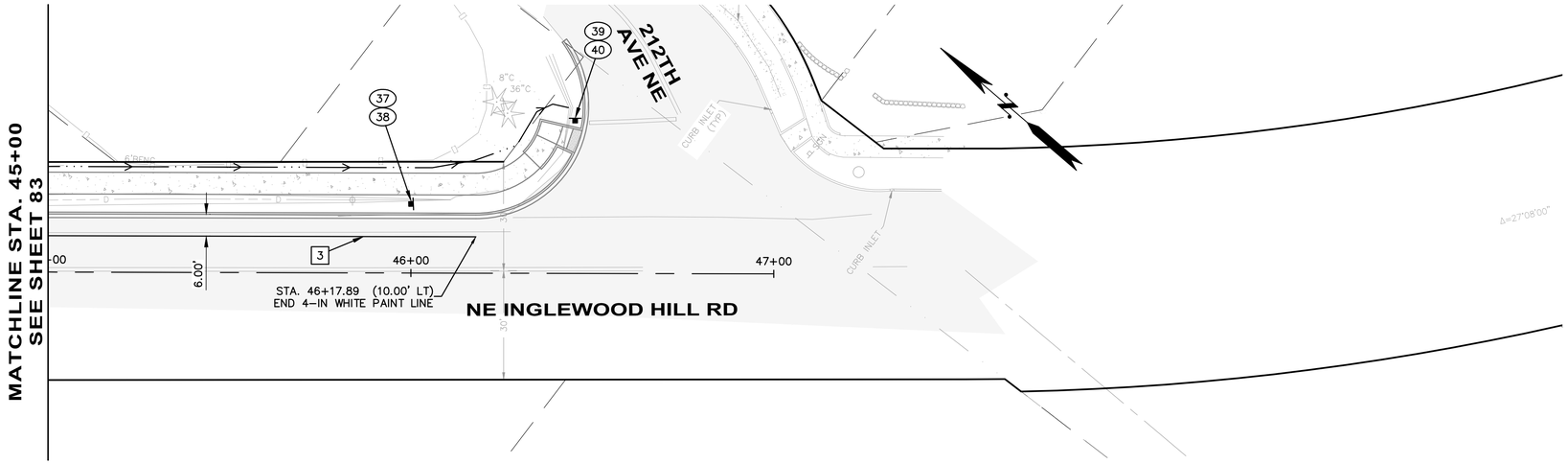
INGLEWOOD HILL STORMWATER AND NON-MOTORIZED IMPROVEMENTS
CHANNELIZATION AND SIGNING
STA. 37+00 TO STA. 45+00

10-140008
OCI PROJECT NO.

83 SHEET OF 89

PLOTTING DATE: 3/1/2016 USER: Travis Franklin FILE NAME: P:\10-140008 Inglewood Drainage\3 CADD\Sheets\P_10-140008_CH01.dwg

SEC. 29 , T. 25 N., R. 6 E., W.M.



GENERAL NOTES:

1. SEE SHEET 85 FOR SIGN SCHEDULE.
2. SEE SHEET 85 FOR STREET SIGN INSTALLATION DETAIL.
3. ALL NEW AND RELOCATED SIGNS SHALL BE INSTALLED IN ACCORDANCE TO STANDARD SIGN INSTALLATION DETAIL SEE SHEET 85.

CHANNELIZATION NOTES:

1. CROSSWALK STRIPING PER KING COUNTY FIG. 4-003.
2. 16-IN WHITE PLASTIC STOP LINE PER KING COUNTY FIG. 4-003.
3. 4-IN WHITE PAINT LINE (SOLID FLAT SURFACE LINE).

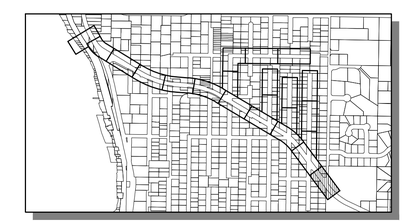
SIGNING LEGEND

- NEW SIGN
- (XX) – NEW SIGN NO.
- EXISTING SIGN

(NEW LOCATION)

EXISTING SIGN ASSEMBLY TO BE REMOVED AND REPLACED

(EXISTING LOCATION)



KEY MAP
SCALE: 1"=1000'

811 Know what's below. Call before you dig.

LAURA RUPPERT STATE OF WASHINGTON 43848 REGISTERED PROFESSIONAL ENGINEER
4/20/16

SCALE: 1" = 20'
0 20 40 60

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NO.	DATE	BY	CKD.	REVISION

City of Sammamish Washington

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INGLEWOOD HILL STORMWATER AND NON-MOTORIZED IMPROVEMENTS
CHANNELIZATION AND SIGNING
STA. 45+00 TO STA. 47+00

10-140008
OCI PROJECT NO.

SHEET 84 OF 89

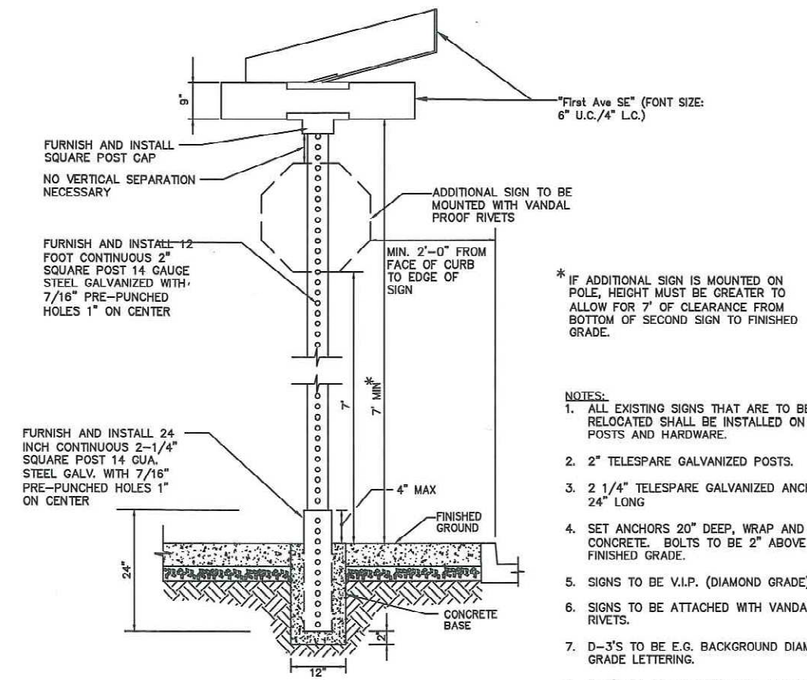
PLOTTING DATE: 3/1/2016 USER: Travis Franklin FILE NAME: P:\10-140008 Inglewood Drainage\3 CADD\Sheets\P_10-140008_CH01.dwg

FWD 07

Relocate to west of Driveway (205th)

SIGN SCHEDULE

SIGN NO.	STATION	CLEARANCE V (FT.)	CLEARANCE H (FT.)	SIGN TYPE	SIGN SIZE W (IN.)	SIGN SIZE H (IN.)	DESCRIPTION	REMARKS
1	15+25	7	2	D1-2	VARIES	30	(LEFT) ISSAQUAH, REDMOND (STRAIGHT)	NEW SIGN AND POST
2	17+12	7	2	W3-3	30	30	SIGNAL AHEAD	NEW SIGN AND POST
3	17+12	10	2	W16-8P	VARIES	8	E LK SAMMAMISH PARKWAY NE	MOUNT SIGN ABOVE NO. 2
4	19+20	8	2	R3-17	24	18	BIKE LANE	NEW SIGN AND POST
5	19+20	7	2	R8-3	24	24	NO PARKING	MOUNT BELOW SIGN NO. 4
5a	19+33	7	2	R1-1	30	30	STOP SIGN	NEW SIGN
5b	22+07	7	2	R1-1	30	30	STOP SIGN	NEW SIGN
6	24+25	8	2	R3-17	24	18	BIKE LANE	NEW SIGN AND POST
7	24+25	7	2	R8-3	24	24	NO PARKING	MOUNT BELOW SIGN NO. 6
8	24+41	7	2	R1-1	30	30	STOP SIGN	NEW SIGN AND POST
9	24+41	9	2	D3-1	VARIES	8	207TH AVE NE PRIVATE ROAD	MOUNT ABOVE SIGN NO. 8
10	24+85	7	2	–	18	24	END MAINTAINED CITY ROAD	EXISTING SIGN TO BE REUSED
11	24+85	10	2	W14-1a	36	9	DEAD END/NO OUTLET	MOUNT ABOVE SIGN NO. 10
12	24+76	7	2	R1-1	30	30	STOP SIGN	NEW SIGN
13	28+35	7	2	S3-1	30	30	SCHOOL BUS STOP AHEAD	NEW SIGN AND POST
14	27+19	8	2	R3-17	24	18	BIKE LANE	NEW SIGN AND POST
15	27+19	7	2	R8-3	24	24	NO PARKING	MOUNT BELOW SIGN NO. 14
16	29+56	7	2	R1-1	30	30	STOP SIGN	NEW SIGN AND POST
16a	29+56	9	2	D3-1	VARIES	8	208TH AVE NE	MOUNT ABOVE SIGN NO. 16
17	31+56	7	2	W1-4	30	30	TURN AND CURVE WARNING	NEW SIGN AND POST
18	33+02	7	2	W2-2	30	30	INTERSECTION WARNING	NEW SIGN AND POST
19	33+02	8	2	W16-8P	VARIES	8	208TH AVE NE / NE 13TH ST	MOUNT ABOVE SIGN NO. 18
20	34+92	8	2	R3-17	24	18	BIKE LANE	NEW SIGN AND POST
21	34+92	7	2	R8-3	24	24	NO PARKING	MOUNT BELOW SIGN NO. 20
22	35+80	7	2	R1-1	30	30	STOP SIGN	NEW SIGN AND POST
22a	35+80	9	2	D3-1	VARIES	8	210TH AVE NE	MOUNT ABOVE SIGN NO. 22
22b	36+96	8	2	R3-17	24	18	BIKE LANE	NEW SIGN AND POST
22c	36+96	7	2	R8-3	24	24	NO PARKING	MOUNT BELOW SIGN NO. 22b
23	37+80	7	2	–	30	30	DO YOUR PART DO NOT LITTER	NEW SIGN AND POST
24	38+82	7	2	R1-1	30	30	STOP SIGN	NEW SIGN AND POST
25	38+82	9	2	D3-1	VARIES	8	211TH AVE NE	MOUNT ABOVE SIGN NO. 24
26	38+82	9	2	D3-1	VARIES	8	NE INGLEWOOD HILL RD	MOUNT ABOVE SIGN NO. 25
27	40+00	8	2	R3-17	24	18	BIKE LANE	NEW SIGN AND POST
28	40+00	7	2	R8-3	24	24	NO PARKING	MOUNT BELOW SIGN NO. 27
29	40+85	8	2	W7-1	30	30	HILL	NEW SIGN AND POST
30	40+85	7	2	W7-3bP	24	18	12% GRADE, 1/2 MILE	MOUNT BELOW SIGN NO. 29
31	42+00	7	2	W2-2	24	24	INTERSECTION WARNING	NEW SIGN AND POST
32	42+00	8	2	W16-8P	VARIES	8	211TH AVE NE	MOUNT ABOVE SIGN ON. 31
33	42+60	7	2	R1-1	30	30	STOP SIGN	NEW SIGN AND POST
34	42+60	8	2	D3-1	VARIES	8	NE INGLEWOOD HILL RD	MOUNT ABOVE SIGN NO. 33
35	42+60	9	2	D3-1	VARIES	8	211TH PL NE	MOUNT ABOVE SIGN NO. 34
35a	43+50	8	2	R3-17	24	18	BIKE LANE	NEW SIGN AND POST
35b	43+50	7	2	R8-3	24	24	NO PARKING	MOUNT BELOW SIGN NO. 35a
36	44+70	7	2	R2-1	24	30	SPEED LIMIT 35	NEW SIGN AND POST
37	46+00	8	2	R3-17	24	18	BIKE LANE	NEW SIGN AND POST
38	46+00	7	2	R8-3	24	24	NO PARKING	MOUNT BELOW SIGN NO. 37
39	46+45	7	2	R1-1	30	30	STOP SIGN	NEW SIGN AND POST
40	46+45	9	2	D3-1	VARIES	8	212TH AVE NE	MOUNT ABOVE SIGN NO. 39



STREET SIGN INSTALLATION DETAIL
N.T.S.

NOTES:
1. ALL EXISTING SIGNS THAT ARE TO BE RELOCATED SHALL BE INSTALLED ON NEW POSTS AND HARDWARE.
2. 2" TELESPARE GALVANIZED POSTS.
3. 2 1/4" TELESPARE GALVANIZED ANCHORS, 24" LONG
4. SET ANCHORS 20" DEEP, WRAP AND SET IN CONCRETE. BOLTS TO BE 2" ABOVE FINISHED GRADE.
5. SIGNS TO BE V.I.P. (DIAMOND GRADE)
6. SIGNS TO BE ATTACHED WITH VANDAL PROOF RIVETS.
7. D-3'S TO BE E.G. BACKGROUND DIAMOND GRADE LETTERING.
8. D-3'S TO BE MOUNTED WITH ALUMINUM CAPS AND CROSS BRACKETS.
9. WHITE LEGEND ON GREEN BACKGROUND.

LAURA RUPPERT STATE OF WASHINGTON 43848 REGISTERED PROFESSIONAL ENGINEER
4/20/16

SCALE BARS INDICATE SCALE OF FULL-SIZE (22 X 34 INCH) DRAWINGS. FOR REDUCED SIZE DRAWINGS ADJUST SCALE ACCORDINGLY.

NO.	DATE	BY	CKD.	REVISION
				1 Property Restriction at 19+20

City of Sammamish WASHINGTON

OSBORN CONSULTING INCORPORATED

OSBORN CONSULTING, INC.
1800 112th Ave. NE, Suite 220E Ph (425) 451-4009
Bellevue, WA. 98004 Fax (425) 451-4901

DESIGNED BY: LCR
DRAWN BY: RDH
CHECKED BY: LAT
DATE: FEB 2016

INGLEWOOD HILL STORMWATER AND NON-MOTORIZED IMPROVEMENTS
CHANNELIZATION AND SIGNING
SIGN SCHEDULE AND DETAILS

10-140008
OCI PROJECT NO.

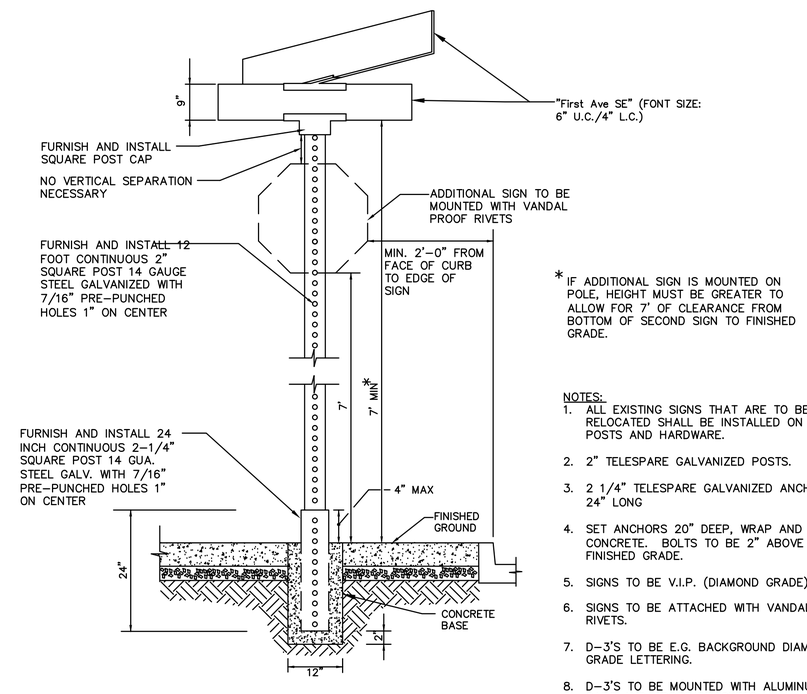
85 SHEET OF 89

PLOTTING DATE: 2/29/2016 USER: Travis Frendt FILE NAME: P:\10-140008 Ingewood Drainage\3 CADD\Sheets\P_10-140008_CHDET.dwg

VOID

SIGN SCHEDULE

SIGN NO.	STATION	CLEARANCE V (FT.)	CLEARANCE H (FT.)	SIGN TYPE	SIGN SIZE W (IN.)	SIGN SIZE H (IN.)	DESCRIPTION	REMARKS
1	15+25	7	2	D1–2	VARIES	30	(LEFT) ISSAQUAH, REDMOND (STRAIGHT)	NEW SIGN AND POST
2	17+12	7	2	W3–3	30	30	SIGNAL AHEAD	NEW SIGN AND POST
3	17+12	10	2	W16–8P	VARIES	8	E LK SAMMAMISH PARKWAY NE	MOUNT SIGN ABOVE NO. 2
4	19+20	8	2	R3–17	24	18	BIKE LANE	NEW SIGN AND POST
5	19+20	7	2	R8–3	24	24	NO PARKING	MOUNT BELOW SIGN NO. 4
5a	19+33	7	2	R1–1	30	30	STOP SIGN	NEW SIGN
5b	22+07	7	2	R1–1	30	30	STOP SIGN	NEW SIGN
6	24+25	8	2	R3–17	24	18	BIKE LANE	NEW SIGN AND POST
7	24+25	7	2	R8–3	24	24	NO PARKING	MOUNT BELOW SIGN NO. 6
8	24+41	7	2	R1–1	30	30	STOP SIGN	NEW SIGN AND POST
9	24+41	9	2	D3–1	VARIES	8	207TH AVE NE PRIVATE ROAD	MOUNT ABOVE SIGN NO. 8
10	24+85	7	2	–	18	24	END MAINTAINED CITY ROAD	EXISTING SIGN TO BE REUSED
11	24+85	10	2	W14–1a	36	9	DEAD END/NO OUTLET	MOUNT ABOVE SIGN NO. 10
12	24+76	7	2	R1–1	30	30	STOP SIGN	NEW SIGN
13	28+35	7	2	S3–1	30	30	SCHOOL BUS STOP AHEAD	NEW SIGN AND POST
14	27+19	8	2	R3–17	24	18	BIKE LANE	NEW SIGN AND POST
15	27+19	7	2	R8–3	24	24	NO PARKING	MOUNT BELOW SIGN NO. 14
16	29+56	7	2	R1–1	30	30	STOP SIGN	NEW SIGN AND POST
16a	29+56	9	2	D3–1	VARIES	8	208TH AVE NE	MOUNT ABOVE SIGN NO. 16
17	31+56	7	2	W1–4	30	30	TURN AND CURVE WARNING	NEW SIGN AND POST
18	33+02	7	2	W2–2	30	30	INTERSECTION WARNING	NEW SIGN AND POST
19	33+02	8	2	W16–8P	VARIES	8	208TH AVE NE / NE 13TH ST	MOUNT ABOVE SIGN NO. 18
20	34+92	8	2	R3–17	24	18	BIKE LANE	NEW SIGN AND POST
21	34+92	7	2	R8–3	24	24	NO PARKING	MOUNT BELOW SIGN NO. 20
22	35+80	7	2	R1–1	30	30	STOP SIGN	NEW SIGN AND POST
22a	35+80	9	2	D3–1	VARIES	8	210TH AVE NE	MOUNT ABOVE SIGN NO. 22
22b	36+96	8	2	R3–17	24	18	BIKE LANE	NEW SIGN AND POST
22c	36+96	7	2	R8–3	24	24	NO PARKING	MOUNT BELOW SIGN NO. 22b
23	37+80	7	2	–	30	30	DO YOUR PART DO NOT LITTER	NEW SIGN AND POST
24	38+82	7	2	R1–1	30	30	STOP SIGN	NEW SIGN AND POST
25	38+82	9	2	D3–1	VARIES	8	211TH AVE NE	MOUNT ABOVE SIGN NO. 24
26	38+82	9	2	D3–1	VARIES	8	NE INGLEWOOD HILL RD	MOUNT ABOVE SIGN NO. 25
27	40+00	8	2	R3–17	24	18	BIKE LANE	NEW SIGN AND POST
28	40+00	7	2	R8–3	24	24	NO PARKING	MOUNT BELOW SIGN NO. 27
29	40+85	8	2	W7–1	30	30	HILL	NEW SIGN AND POST
30	40+85	7	2	W7–3bP	24	18	12% GRADE, 1/2 MILE	MOUNT BELOW SIGN NO. 29
31	42+00	7	2	W2–2	24	24	INTERSECTION WARNING	NEW SIGN AND POST
32	42+00	8	2	W16–8P	VARIES	8	211TH AVE NE	MOUNT ABOVE SIGN ON. 31
33	42+60	7	2	R1–1	30	30	STOP SIGN	NEW SIGN AND POST
34	42+60	8	2	D3–1	VARIES	8	NE INGLEWOOD HILL RD	MOUNT ABOVE SIGN NO. 33
35	42+60	9	2	D3–1	VARIES	8	211TH PL NE	MOUNT ABOVE SIGN NO. 34
35a	43+50	8	2	R3–17	24	18	BIKE LANE	NEW SIGN AND POST
35b	43+50	7	2	R8–3	24	24	NO PARKING	MOUNT BELOW SIGN NO. 35a
36	44+70	7	2	R2–1	24	30	SPEED LIMIT 35	NEW SIGN AND POST
37	46+00	8	2	R3–17	24	18	BIKE LANE	NEW SIGN AND POST
38	46+00	7	2	R8–3	24	24	NO PARKING	MOUNT BELOW SIGN NO. 37
39	46+45	7	2	R1–1	30	30	STOP SIGN	NEW SIGN AND POST
40	46+45	9	2	D3–1	VARIES	8	212TH AVE NE	MOUNT ABOVE SIGN NO. 39



STREET SIGN INSTALLATION DETAIL

N.T.S.

NOTES:

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LAURA RUPPERT STATE OF WASHINGTON 43848 REGISTERED PROFESSIONAL ENGINEER

4/20/16

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NO.	DATE	BY	CKD.	REVISION

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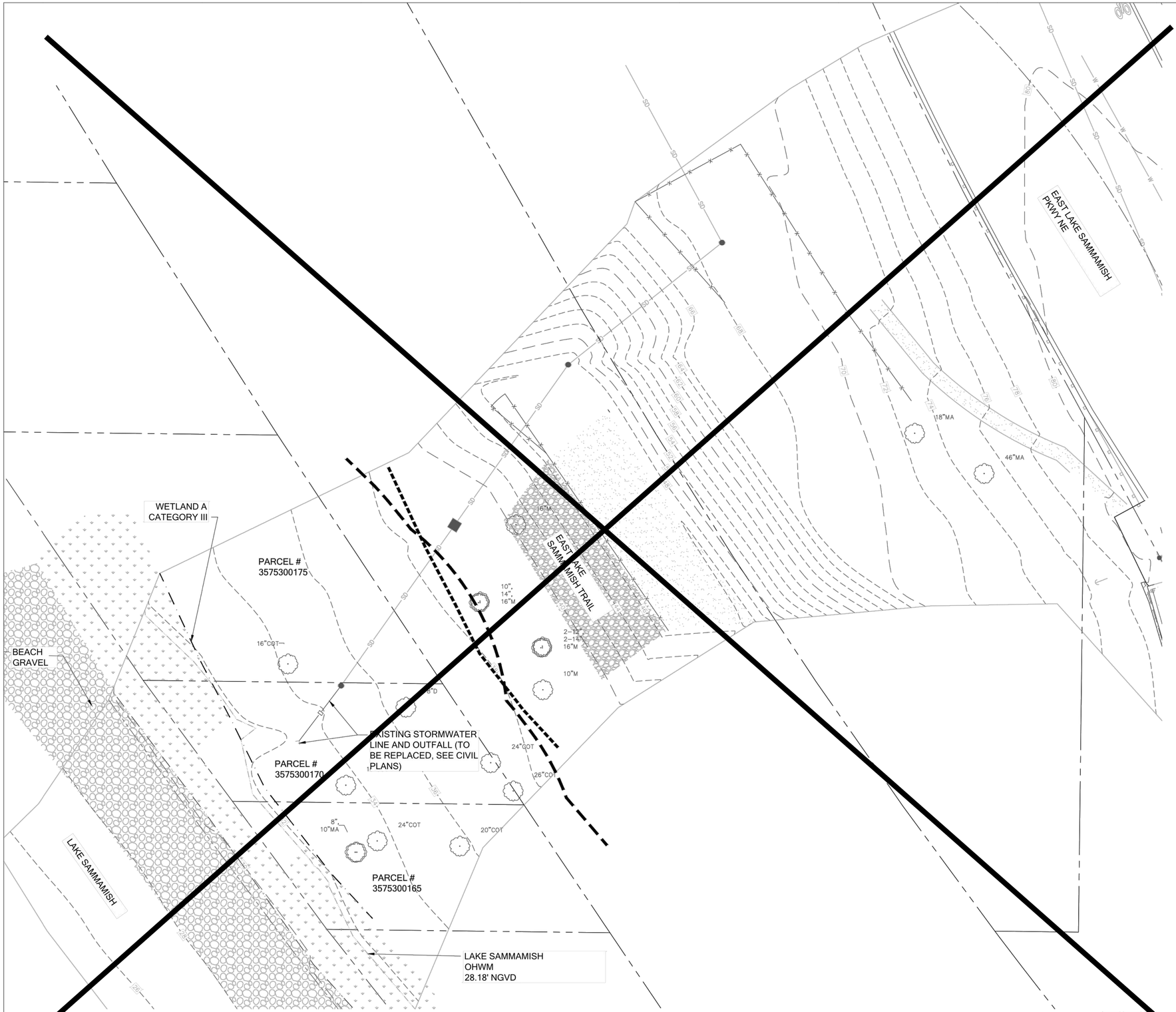
INGLEWOOD HILL STORMWATER AND NON-MOTORIZED IMPROVEMENTS
CHANNELIZATION AND SIGNING
SIGN SCHEDULE AND DETAILS

10-140008
OCI PROJECT NO.

85 SHEET OF 89

PLOTTING DATE: 2/29/2016 USER: Travis FrankiFILE NAME: P:\10-140008 Inglewood Drainage\3 CADD\Sheets\P_10-140008_CHDET.dwg



EXISTING CONDITIONS

CRITICAL AREAS FEATURES LEGEND

- LAKE OHWM
- 50' LAKE SETBACK
- DELINEATED WETLAND
- WETLAND BUFFER
- SHORELINE ZONE

SHEET INDEX

W1 EXISTING CONDITIONS
W2 IMPACTS AND MITIGATION PLAN
W3 PLANTING PLAN
W4 MITIGATION PLAN NOTES

NOTES

1. CRITICAL AREAS DELINEATED BY THE WATERSHED COMPANY ON AUGUST 18,2014.
2. SURVEY RECEIVED FROM AXIS SURVEY AND MAPPING (425)823-5700.

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THE WATERSHED COMPANY
750 Sixth Street South
Kirkland WA 98033
p 425.822.5242
www.watershedco.com
Science & Design

INGLEWOOD NEIGHBORHOOD DRAINAGE

RESTORATION PLAN
PREPARED FOR: OSBORN CONSULTING INC.
PARCELS 3575300175, 3575300170, 3575300165
EAST LAKE SAMMAMISH PKWY NE
SAMMAMISH, WA

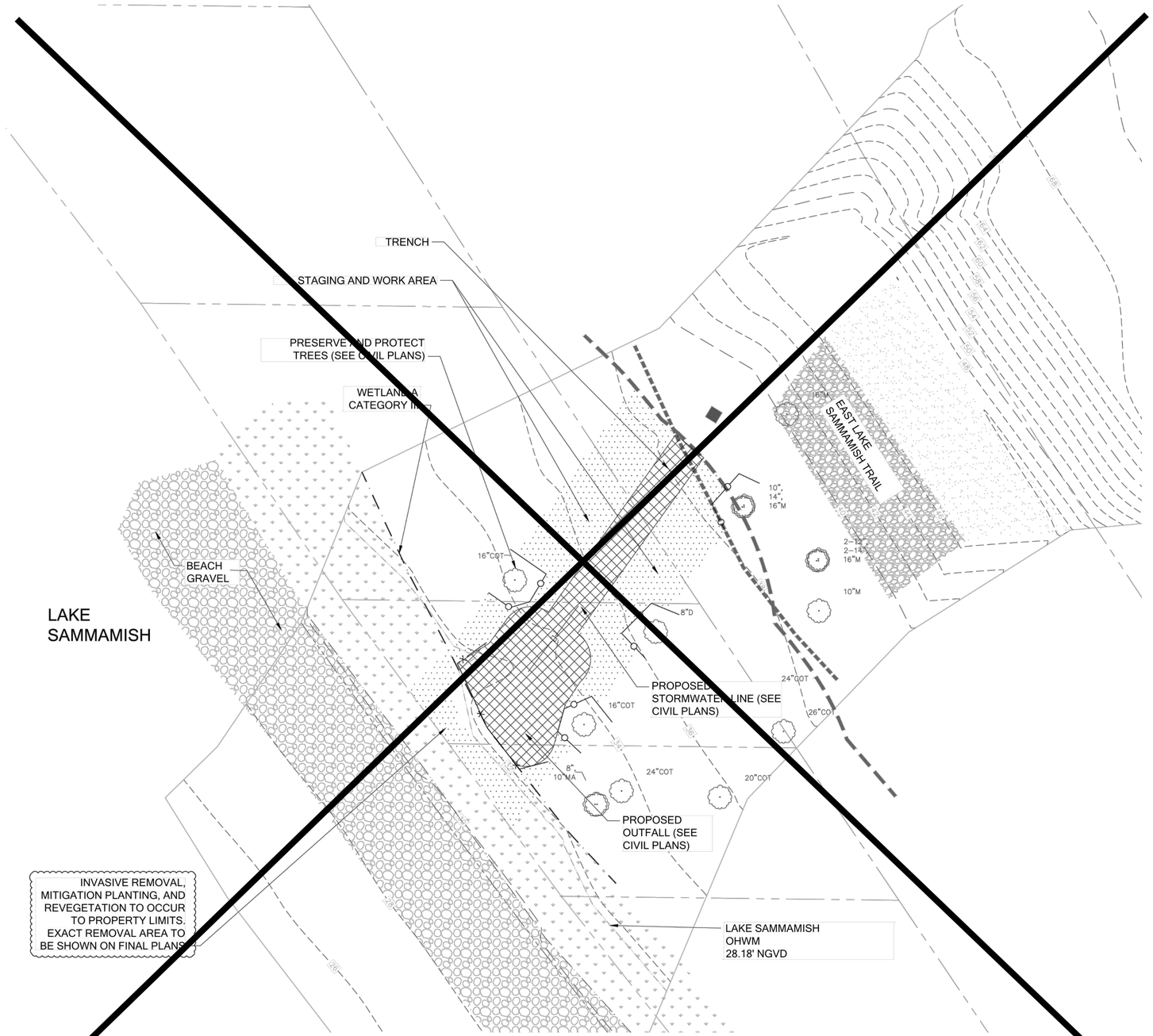
SUBMITTALS & REVISIONS

NO.	DATE	DESCRIPTION	BY
1	5-28-15	REVIEW SET	CL
2	10-27-15	ADDED NOTE ON SHEET W2	CL
3	12-28-15	90% PS+E	KMB

SHEET SIZE:
ORIGINAL PLAN IS 22" x 34".
SCALE ACCORDINGLY.

PROJECT MANAGER: HM
DESIGNED: CL/HM
DRAFTED: CL/KMB
CHECKED: HM/AR
JOB NUMBER:
140311
SHEET NUMBER:
86 SHEET OF 89

FILENAME 140311_INGLEWOODMIT PLAN12-28.DWG
PRINTED BY KYLE BRAUN
DATE 12/30/2015



IMPACTS AND RESTORATION PLAN

0 5' 10' 20' 40'

CRITICAL AREAS FEATURES LEGEND

- LAKE OHWM
- 50' LAKE SETBACK
- DELINEATED WETLAND
- WETLAND BUFFER

IMPACTS AND RESTORATION LEGEND

	TEMPORARY BUFFER IMPACT FOR PIPE INSTALLATION (TO BE RESTORED IN PLACE)	575 SF
	POTENTIAL TEMPORARY BUFFER/WETLAND IMPACT FOR ACCESS (TO BE RESTORED WHERE/IF IMPACT OCCURS)	UP TO 775 SF
—X—	SILT FENCE (SEE CIVIL PLANS, VERIFY AND REPAIR AS NEEDED)	
—O—	TREE PROTECTION FENCE (SEE CIVIL PLANS, VERIFY AND REPAIR AS NEEDED)	

ITEMS TO BE CONSTRUCTED UNDER SEPARATE CONTRACT

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THE WATERSHED COMPANY
750 Sixth Street South
Kirkland WA 98033
p 425.822.5242
www.watershedco.com
Science & Design

INGLEWOOD NEIGHBORHOOD DRAINAGE

RESTORATION PLAN
PREPARED FOR: OSBORN CONSULTING INC.
PARCELS 3575300175, 3575300170, 3575300165
EAST LAKE SAMMAMISH PKWY NE
SAMMAMISH, WA

SUBMITTALS & REVISIONS

NO.	DATE	DESCRIPTION	BY
1	5-28-15	REVIEW SET	CL
2	10-27-15	ADDED NOTE ON SHEET W2	CL
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SHEET SIZE:
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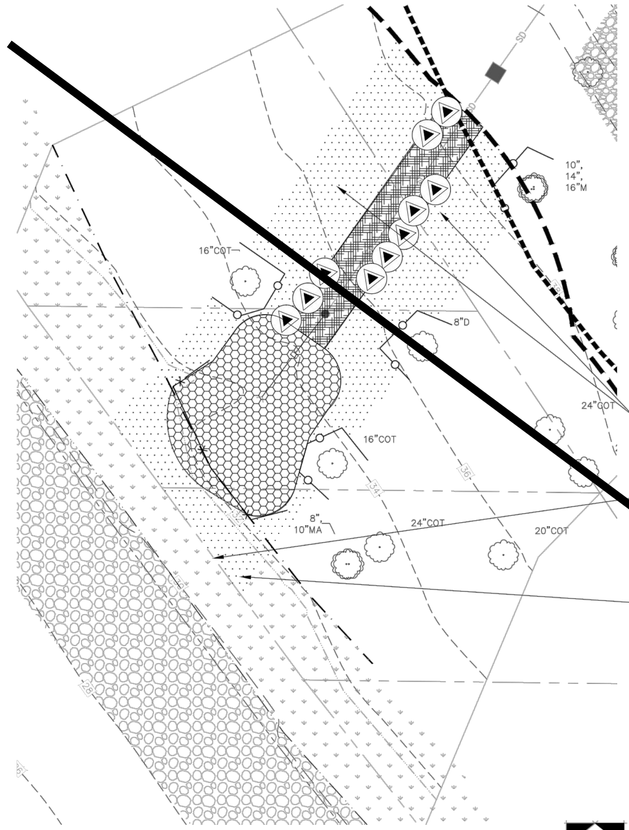
SCALE ACCORDINGLY.

PROJECT MANAGER: HM
DESIGNED: CL/HM
DRAFTED: CL/KMB
CHECKED: HM/AR
JOB NUMBER:
140311
SHEET NUMBER:
87 SHEET
89 OF

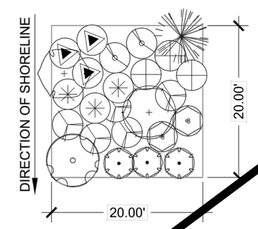
DATE 12/30/2015 | PRINTED BY KYLE BRAUN | FILENAME 140311_INGLEWOODMIT PLAN12-28.DWG



PLANT SCHEDULE

SHRUBS	LATIN NAME/COMMON NAME	SIZE	QTY	SPACING/NOTES
	SALIX SCOULERIANA / SCOULER'S WILLOW AND SALIX SITCHENSIS / SITKA WILLOW	4' LIVE STAKE 4' LIVE STAKE	60 60	24" O.C. PLANT IN GROUPS OF 20 24" O.C. PLANT IN GROUPS OF 20
	GAULTHERIA SHALLON /SALAL MAHONIA NERVOSA / DULL MAHONIA	1 GAL. 1 GAL.	30 30	24" O.C. / PLANT IN GROUPS OF 15 24" O.C. / PLANT IN GROUPS OF 15
	SYMPHORICARPOS ALBUS	1 GAL.	10	AS SHOWN

ITEMS TO BE CONSTRUCTED UNDER SEPARATE CONTRACT



PLANTING TYPICAL LEGEND

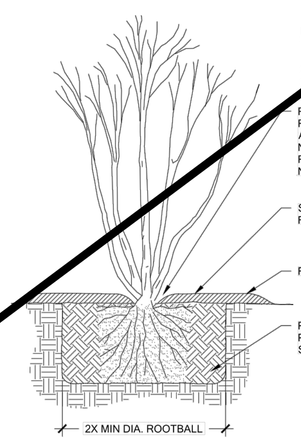
TREES	LATIN NAME/COMMON NAME	SIZE	RATE/SF
	ACER MACROPHYLLUM / BIGLEAF MAPLE	2 GAL	0.0025
	THUJA PLICATA / WESTERN RED CEDAR	2 GAL	0.0025
	POPULUS BALSAMIFERA / BLACK COTTONWOOD	2 GAL	0.0025
	BETULA PAPYRIFERA / PAPER BIRCH	2 GAL	0.0025
SHRUBS			
	RUBUS PARVIFLORUS / THIMBLEBERRY	1 GAL	0.0125
	HOLODISCUS DISCOLOR / OCEANSPRAY	1 GAL	0.005
	RIBES SANGUINEUM / RED FLOWERING CURRANT	1 GAL	0.0075
	SYMPHORICARPOS ALBUS / SNOWBERRY	1 GAL	0.0075
	ROSA GYMNOCARPA / BALDHIP ROSE	1 GAL	0.0075
	SALIX SCOULERIANA / SCOULER'S WILLOW	1 GAL	0.0075
	PHYSOCARPUS CAPITATUS / NINEBARK	1 GAL	0.005

950 TOTAL SF

1 RESTORATION PLANTING TYPICAL FOR ACCESS AREAS (AS NEEDED FOR IMPACTS)

Scale: 1:10

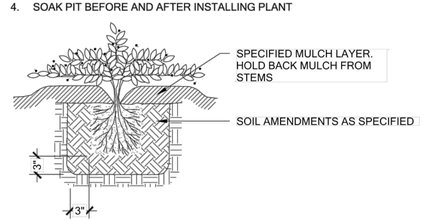
NOTES:
1. PLANTING PIT SHALL NOT BE LESS THAN (2) TIMES THE WIDTH OF THE ROOT BALL DIA.
2. LOOSEN SIDES AND BOTTOMS OF PLANTING PIT
3. SOAK PLANTING PIT AFTER PLANTING



2 TREE AND SHRUB PLANTING

Scale: NTS

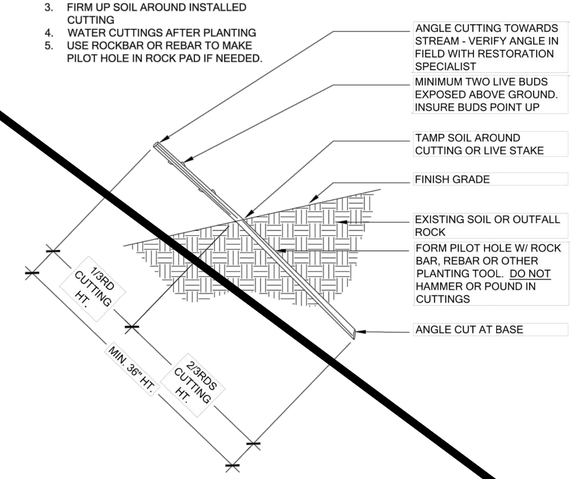
NOTES:
1. PLANT GROUNDCOVER AT SPECIFIED DISTANCE ON-CENTER (O.C.) USING TRIANGULAR SPACING, TYP.
2. LOOSEN SIDES AND BOTTOM OF PLANTING PIT AND REMOVE DEBRIS
3. LOOSEN ROOTBOUND PLANTS BEFORE INSTALLING
4. SOAK PIT BEFORE AND AFTER INSTALLING PLANT



3 GROUNDCOVER PLANTING

Scale: NTS

NOTES:
1. INSTALL CUTTING A MIN. OF 2/3RDS INTO SOIL
2. INSURE THAT BUDS ARE POINTING UP
3. FIRM UP SOIL AROUND INSTALLED CUTTING
4. WATER CUTTINGS AFTER PLANTING
5. USE ROCKBAR OR REBAR TO MAKE PILOT HOLE IN ROCK PAD IF NEEDED.



4 LIVE STAKE PLANTING

SCALE: NTS

PLANTING PLAN

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Science & Design

INGLEWOOD NEIGHBORHOOD DRAINAGE
RESTORATION PLAN
PREPARED FOR: OSBORN CONSULTING INC.
PARCELS 3575300175, 3575300170, 3575300165
EAST LAKE SAMMAMISH PKWY NE
SAMMAMISH, WA

SUBMITTALS & REVISIONS

NO.	DATE	DESCRIPTION	BY
1	5-28-15	REVIEW SET	CL
2	10-27-15	ADDED NOTE ON SHEET W2	CL
3	12-28-15	90% PS+E	KMB

SHEET SIZE:
ORIGINAL PLAN IS 22" x 34".
SCALE ACCORDINGLY.

PROJECT MANAGER: HM
DESIGNED: CL/HM
DRAFTED: CL/KMB
CHECKED: HM/AR
JOB NUMBER: 140311
SHEET NUMBER: 88 SHEET OF 89

FILENAME: 140311_INGLEWOODMIT PLAN12-28.DWG
PRINTED BY: KYLE BRAUN
DATE: 12/30/2015

Executive Summary

THE CITY OF SAMMAMISH IS UPGRADING STORMWATER FACILITIES IN THE INGLEWOOD NEIGHBORHOOD TO RESOLVE EXISTING DRAINAGE PROBLEMS AND ACCOMMODATE FUTURE DEVELOPMENT. THE INGLEWOOD NEIGHBORHOOD IS CURRENTLY UNDERGOING REDEVELOPMENT ON A LOT-BY-LOT BASIS, AND THE EXISTING INFRASTRUCTURE DOES NOT SUPPORT THE INFORMAL RESIDENTIAL IN-FILLING. THE GOAL OF THE PROPOSED DRAINAGE IMPROVEMENTS IS TO PROVIDE SOLUTIONS TO EXISTING DRAINAGE PROBLEMS AND SUPPORT FUTURE DEVELOPMENT WITHOUT CAUSING IMPACTS TO NATURAL RESOURCES OR EXISTING INFRASTRUCTURE. THE PRELIMINARY DESIGN UTILIZES THE FLOW CAPACITY OF THE EXISTING 24-INCH STORMWATER LINE AND PREVENTS FURTHER EROSION IN THE CURRENTLY INCISED CHANNEL BETWEEN 205TH AVENUE NE AND 206TH AVENUE NE. THE PRELIMINARY DESIGN IS COMPRISED OF A COLLECTION SYSTEM, TRUNK LINE CONVEYANCE, AND NEW OUTFALL TO LAKE SAMMAMISH. OF THESE IMPROVEMENTS ONLY THE OUTFALL LOCATION IS WITHIN CRITICAL AREA BUFFERS, SPECIFICALLY THE BUFFER OF LAKE SAMMAMISH AND THE 50-FOOT BUFFER OF A LAKE-FRINGE WETLAND. AN EXISTING 18-INCH DIAMETER STORMWATER PIPE AND OUTFALL WILL BE REMOVED AND REPLACED WITH THE NEW, 24-INCH LINE. THIS MITIGATION PLAN PROPOSES TO RESTORE BUFFER AREAS DISTURBED DURING THE INSTALLATION OF THE NEW LINE, INCLUDING THE TRENCH AND ADJACENT STAGING AND WORK AREAS.

ALL PROJECT IMPACTS ARE EXPECTED TO BE TEMPORARY IN NATURE AND THERE ARE NO IMPACTS PROPOSED WITHIN THE WETLAND BOUNDARY OR BELOW THE ORDINARY HIGH WATER MARK (OHWM) OF LAKE SAMMAMISH. THE CURRENT CONDITIONS ABOVE THE PROPOSED OUTFALL CONSISTS OF A LIGHTLY USED FOOTPATH THROUGH MODERATELY-SIZED BLACK COTTONWOOD AND OREGON ASH TREES AND A SPARSE UNDERSTORY OF MAINLY NON-NATIVE GRASSES AND HIMALAYAN BLACKBERRY VINES. NEAR THE SHORELINE, ANTICIPATED VEGETATION DISTURBANCE IS LIMITED MAINLY TO GARDEN LOOSESTRIFE WITH LESSER AMOUNTS OF REED CANARYGRASS, COMMON HORSETAIL AND HIMALAYAN BLACKBERRY. COMMON SPIKERUSH IS ALSO FOUND BELOW THE ORDINARY HIGH WATER MARK (OHWM) BUT NO DISTURBANCE IS PLANNED FOR THESE AREAS. ALL TREES IN THE PROJECT AREA WILL BE PRESERVED AND PROTECTED.

PROJECT IMPACTS ARE LIMITED TO WETLAND AND LAKE SAMMAMISH BUFFER SETBACK AREAS. BUFFER IMPACTS WILL BE MITIGATED THROUGH RESTORATION OF AREAS DISTURBED DURING CONSTRUCTION. TWO LEVELS OF IMPACT ARE ANTICIPATED, THE TRENCH AREA AND A STAGING AND WORK AREA ON EITHER SIDE OF THE TRENCH. SEVERAL TREES ARE LOCATED WITHIN THIS STAGING/WORK AREA AND THE CONTRACTOR WILL BE INSTRUCTED TO PRESERVE AND PROTECT THESE TREES. ALL OTHER AREAS WITHIN THE STAGING/WORK AREA WILL BE RESTORED WHERE DISTURBED. IT IS ANTICIPATED NOT ALL AREAS SHOWN WILL BE DISTURBED. TABLE 1 BELOW SUMMARIZES PROPOSED IMPACTS AND MITIGATION.

Type of Impact	Impact Area (SF)	Type of Restoration	Restoration Area (SF)
Trenching	575	Soil amendment Revegetation with native species	575
Staging/work areas	Up to 775	Soil decompaction Revegetation with native species	Up to 775

MITIGATION APPROACH

MITIGATION SEQUENCING

AVOID

DIRECT IMPACTS TO CRITICAL AREAS IS AVOIDED BY THE PROJECT. HOWEVER, TOTAL AVOIDANCE OF BUFFERS IMPACTS IS NOT POSSIBLE DUE TO THE NEED TO DISCHARGE STORMWATER TO DOWNSTREAM RECEIVING WATERS (LAKE SAMMAMISH). THE SELECTED OUTFALL LOCATION WAS CHOSEN DUE TO ITS KING COUNTY OWNERSHIP. ADJACENT PARCELS ARE PRIVATELY OWNED AND AN EASEMENT ON THESE HIGHLY CONSTRAINED, SMALL LOTS IS AN INFEASIBLE OPTION.

MINIMIZE

PLACING THE NEW OUTFALL IN THE SAME LOCATION AS THE EXISTING OUTFALL MINIMIZES THE DISTURBANCE. AN EARLIER PLAN VERSION CALLED FOR ABANDONING THE EXISTING OUTFALL PIPE IN PLACE. THIS OPTION WAS REJECTED IN AN EFFORT TO MINIMIZE PROJECT IMPACTS.

RESTORE

TEMPORARY CONSTRUCTION RELATED IMPACTS DUE TO BOTH ACCESS REQUIREMENTS AND INSTALLATION OF THE OUTFALL WILL BE REPAIRED TO PRE-CONSTRUCTION CONDITION (OR BETTER).

REDUCE OR ELIMINATE THE IMPACT OVER TIME

A MAINTENANCE PLAN AND LONG-TERM SITE PROTECTION MEASURES ARE PROPOSED.

COMPENSATE

THE PROPOSED BUFFER RESTORATION IS INTENDED TO MITIGATE IMPACTS BY IMPROVING BUFFER FUNCTIONS THROUGH RE-ESTABLISHING A NATURAL VEGETATED AREA. THE PLANTING WILL CONSTITUTE AN IMPROVEMENT OVER THE EXISTING SITE CONDITION IN TERMS OF NATIVE PLANT DENSITY AND DIVERSITY; INVASIVE PLANT COVER WILL ALSO BE REDUCED.

MONITOR

A FIVE-YEAR MONITORING PLAN IS PROPOSED TO ENSURE SUCCESS OF REQUIRED MITIGATION MEASURES AND THAT RECTIFYING ACTIONS WILL BE TAKEN BASED UPON FINDINGS OVER TIME.

GOALS AND PERFORMANCE STANDARDS *(NOT IN CONTRACT)*

SITE SPECIFIC GOALS ARE PROVIDED TO IDENTIFY HOW WETLAND BUFFER FUNCTIONS AND VALUES WILL BE MAINTAINED DESPITE PROPOSED LAND USE CHANGES. PERFORMANCE STANDARDS ARE MEASURABLE STANDARDS, USED TO GAUGE PROJECT PERFORMANCE OVER THE MONITORING PERIOD. GOALS AND PERFORMANCE STANDARDS INCLUDE SPECIFIC REQUIREMENTS FOR SURVIVAL, WOODY COVER, DIVERSITY, AND INVASIVE SPECIES COVER. IF THE PERFORMANCE STANDARDS ARE MET AT THE END OF THE MONITORING PERIOD (5 YEARS), THEN THE MITIGATION PROJECT WILL BE DEEMED SUCCESSFUL.

GOALS *(NOT IN CONTRACT)*

RESTORE TEMPORARY BUFFER IMPACTS IN PLACE.

a) ESTABLISH BUFFER VEGETATION EQUIVALENT TO OR GREATER QUALITY THAN THE PRE-EXISTING CONDITION.

b) ESTABLISH A DIVERSE NATIVE SHRUB VEGETATION COMMUNITY.

c) REMOVE AND CONTROL ALL NON-NATIVE INVASIVE VEGETATION.

PERFORMANCE STANDARDS *(NOT IN CONTRACT)*

THE STANDARDS LISTED BELOW WILL BE USED TO JUDGE THE SUCCESS OF THE PLAN OVER TIME. IF THE STANDARDS ARE MET AT THE END OF THE FIVE-YEAR MONITORING PERIOD, THE PROJECT SHALL BE CONSIDERED COMPLETE.

1) SURVIVAL STANDARDS:

a) 100% SURVIVAL OF INSTALLED CONTAINER PLANTINGS IN ALL AREAS AT THE END OF YEAR 1. THIS STANDARD MAY BE MET THROUGH ESTABLISHMENT OF INSTALLED PLANTS OR BY REPLANTING AS NECESSARY TO ACHIEVE THE REQUIRED NUMBERS. THIS STANDARD DOES NOT APPLY TO LIVE STAKES/CUTTINGS.

b) 80% SURVIVAL OF INSTALLED CONTAINER PLANTINGS IN ALL AREAS AT THE END OF YEAR 2. THIS STANDARD MAY BE MET THROUGH ESTABLISHMENT OF INSTALLED PLANTS OR BY REPLANTING AS NECESSARY TO ACHIEVE THE REQUIRED NUMBERS. THIS STANDARD DOES NOT APPLY TO LIVE STAKES/CUTTINGS.

i) SURVIVAL BEYOND YEAR 2 IS DIFFICULT TO TRACK. THEREFORE, THE FOLLOWING DIVERSITY STANDARD SHALL BE IMPLEMENTED: ESTABLISHMENT OF AT LEAST FIVE NATIVE SHRUB SPECIES IN RESTORATION AREAS.

2) NATIVE VEGETATION COVER STANDARDS:

a) ACHIEVE 60% AERIAL COVER OF NATIVE WOODY VEGETATION IN ALL PLANTED AREAS, INCLUDING THE OUTFALL PAD, BY THE END OF YEAR 3. NATIVE VOLUNTEERS MAY COUNT TOWARDS THIS STANDARD.

b) ACHIEVE 80% AERIAL COVER OF NATIVE WOODY VEGETATION IN ALL AREAS, INCLUDING THE OUTFALL PAD, BY THE END OF YEAR 5. NATIVE VOLUNTEERS MAY COUNT TOWARDS THIS STANDARD; OR DOCUMENT 80 PERCENT SURVIVAL OF INSTALLED VEGETATION.

3) INVASIVE SPECIES COVER STANDARD:

a) NO MORE THAN 10% AERIAL COVER OF NON-NATIVE INVASIVE SPECIES IN ANY PLANTING AREAS IN ANY MONITORING YEAR.

CONTINGENCIES *(NOT IN CONTRACT)*

IF THERE IS A SIGNIFICANT PROBLEM WITH THE MITIGATION AREA MEETING PERFORMANCE STANDARDS, A CONTINGENCY PLAN WILL BE DEVELOPED. CONTINGENCY PLANS CAN INCLUDE, BUT ARE NOT LIMITED TO, SOIL AMENDMENTS, ADDITIONAL PLANT INSTALLATIONS, EROSION CONTROL, AND PLANT SUBSTITUTIONS OF SIZE, QUANTITY, DENSITY, AND LOCATION

CONSTRUCTION NOTES AND SPECIFICATIONS

WORK SEQUENCE

NOTE: SPECIFICATIONS FOR ITEMS IN **BOLD** CAN BE FOUND UNDER "MATERIAL SPECIFICATIONS AND DEFINITIONS."

THE **RESTORATION SPECIALIST** SHALL MONITOR:

1) WETLAND BUFFER RESTORATION AND ENHANCEMENT: SITE PREPARATION, PLANT MATERIAL INSPECTIONS, PLANT INSTALLATION INSPECTIONS, AND FINAL PLAN DETAILS.

GENERAL WORK SEQUENCE

1) SURVEY AND MARK PROPERTY LINES FOR PARCEL #3575300175, #3575300170, #3575300165.

2) INSTALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES IDENTIFIED IN THE TESC PLAN. SILT FENCING MUST BE IN PLACE PRIOR TO ANY SOIL DISTURBING ACTIVITIES.

3) INSPECT AND REPAIR EROSION CONTROLS SPECIFIED IN THE CIVIL ENGINEERING PLANS.

4) AS SHOWN ON THE CIVIL ENGINEERING PLANS, BEFORE BEGINNING CONSTRUCTION WORK, ESTABLISH CLEARING LIMITS AND DEFINE THE WORK AREA. IDENTIFY AND DEMARCATE THE LIMITS OF PROJECT GRADING AND MARK TREES AND ANY OTHER VEGETATION TO BE SAVED.

5) INSTALL TREE PROTECTION FENCING.

6) CLEAR DISTURBED AREAS OF ALL INVASIVE VEGETATION AND ROOTS, BEING CAREFUL NOT TO DAMAGE EXISTING, NATIVE VEGETATION AND TO DISTURB AS LITTLE OF THE TOPSOIL AS FEASIBLE. TARGET SPECIES INCLUDE GARDEN LOOSESTRIFE, HIMALAYAN BLACKBERRY AND REED CANARYGRASS. WHERE APPLICABLE, FOLLOW PROTOCOLS DESCRIBED IN THE SPECIFICATIONS AND SPECIAL PROVISIONS.

7) FOLLOWING STORMWATER PIPE AND OUTFALL INSTALLATION AND BACKFILLING, PREPARE THE TRENCH AREA FOR PLANTING:

a) DECOMPACT THE TOP 6-INCHES USING A ROTO-TILLER OR SIMILAR METHOD TO ENSURE SOILS ARE SUFFICIENTLY LOOSE FOR PLANT INSTALLATION.

b) INCORPORATE 3-INCHES OF **COMPOST** INTO THE TOP 6-INCHES OF SOIL USING A ROTO-TILLER OR SIMILAR METHOD TO ACHIEVE ADEQUATE MIXING OF SOIL AND COMPOST AMENDMENT.

7) EVALUATE THE STAGING/WORK AREAS FOR BUFFER DISTURBANCE INCURRED DURING CONSTRUCTION. DETERMINE THE DISTURBED AREA TO BE RESTORED USING THE TYPICAL PLANTING PLANS SHOWN ON SHEET W3.

8) TOP-DRESS THE DISTURBED STAGING/WORK AREAS WITH 3-INCHES OF **COMPOST** IN PREPARATION FOR PLANTING.

9) INSTALL VEGETATION AS SHOWN IN THE PLANTING PLAN AND PLANTING TYPICAL. THOROUGHLY WATER PLANTS IMMEDIATELY FOLLOWING PLANTING. VEGETATION INSTALLATION SHALL TAKE PLACE DURING THE DORMANT SEASON, OCTOBER 15TH THROUGH MARCH 1ST, FOR BEST SURVIVAL. PLANTING OUTSIDE THIS TIME SHALL BE UNDERTAKEN ONLY IF 1-INCH PER WEEK OF IRRIGATION IS POSSIBLE THROUGH THE SUMMER MONTHS.

10) INSTALL A 4-INCH DEEP LAYER OF **WOOD CHIP MULCH** THROUGHOUT THE RESTORATION AREA. MULCH SHOULD NOT COVER PLANTS OR TOUCH THE PLANT STEMS.

MONITORING METHODS *(NOT IN CONTRACT)*

THIS MONITORING PROGRAM IS DESIGNED TO TRACK THE SUCCESS OF THE MITIGATION SITE OVER TIME AND TO MEASURE THE DEGREE TO WHICH IT IS MEETING THE PERFORMANCE STANDARDS. THE MAINTENANCE PROGRAM IS DESIGNED TO PROGRESS THE RESTORATION TOWARDS MEETING STANDARDS BY MAINTAINING PLANT HEALTH, CONTROLLING INVASIVE PLANTS, AND MAXIMIZING GROWTH. UPON COMPLETE INSTALLATION OF THE APPROVED MITIGATION PLAN, AN AS-BUILT REPORT WILL BE PREPARED TO DOCUMENT THE BEGINNING OF THE MONITORING PERIOD AND NOTE ANY ACCEPTED CHANGES TO THE MITIGATION PLAN. THE AS-BUILT PLAN WILL ESTABLISH TRANSECTS, BASELINE PLANT INSTALLATION QUANTITIES, AND PHOTOPOINTS THAT WILL BE USED THROUGHOUT THE MONITORING PERIOD TO MEASURE THE PERFORMANCE STANDARDS. MONITORING IS TYPICALLY CONDUCTED TWICE ANNUALLY FOR FIVE YEARS.

TRANSECTS *(NOT IN CONTRACT)*

DURING THE AS-BUILT INSPECTION, THE **RESTORATION SPECIALIST** SHALL INSTALL ONE 50-FOOT TRANSECT THROUGH THE PLANTED TRENCH SECTION. PERCENT COVER DATA SHALL BE RECORDED ALONG ESTABLISHED TRANSECTS USING THE LINE INTERCEPT METHOD. TRANSECTS ARE NOT SUITABLE FOR SMALLER PLANTING MITIGATION AREAS, THEREFORE, AREAS OUTSIDE THE TRENCH SECTION, WILL BE EVALUATED VISUALLY.

YEARLY MONITORING *(NOT IN CONTRACT)*

VEGETATION AND GENERAL SITE MONITORING SHALL TAKE PLACE TWICE ANNUALLY FOR FIVE YEARS. DURING EACH YEAR THERE SHALL BE A SPRING VISIT AND A SUMMER OR EARLY FALL VISIT.

THE SPRING MONITORING VISIT WILL ADDRESS MAINTENANCE NEEDS SUCH AS PLANT REPLACEMENT AND WEEDING. FOLLOWING THE SPRING VISIT, THE **RESTORATION SPECIALIST** WILL NOTIFY THE CITY AND/OR MAINTENANCE CREWS OF NECESSARY MAINTENANCE. THE SECOND ANNUAL VISIT WILL OCCUR JULY 1ST TO SEPTEMBER 15TH AND WILL RECORD A QUANTITATIVE ASSESSMENT OF THE SITE'S PROGRESS. A REPORT DETAILING THE FINDINGS OF SUMMER VEGETATION MONITORING AND SPRING HYDROLOGY AND SOIL MONITORING WILL BE SUBMITTED ANNUALLY TO THE CITY AND WILL CONTAIN THE FOLLOWING:

1) GENERAL SUMMARY OF SITE CONDITIONS.

2) COUNTS OF LIVE PLANTS BY SPECIES (YEARS 1 AND 2 ONLY).

3) PERCENT COVER OF NATIVE WOODY SPECIES IN THE PLANTED TRENCH AREA, DETERMINED BY USING THE LINE INTERCEPT METHOD ALONG ESTABLISHED TRANSECTS OR VISUAL COVER CLASS METHOD OUTSIDE THE TRENCH.

4) PERCENT COVER OF INVASIVE SPECIES USING THE LINE INTERCEPT METHOD ALONG ESTABLISHED TRANSECTS IN THE PLANTED TRENCH AREA OR VISUAL COVER CLASS METHOD OUTSIDE THE TRENCH.

5) NOTES OF INVASIVE WEEDS OUTSIDE OF ESTABLISHED TRANSECTS.

6) PHOTOGRAPHIC DOCUMENTATION FROM ESTABLISHED PHOTO-POINTS AND TRANSECT ENDS.

7) INTRUSIONS INTO THE PLANTING AREAS, VANDALISM OR OTHER ACTIONS THAT IMPAIR THE INTENDED FUNCTIONS OF THE MITIGATION AREAS.

8) RECOMMENDATIONS FOR MAINTENANCE OR REPAIR IN THE RESTORATION AREA.

PLANT ESTABLISHMENT PERIOD *(NOT IN CONTRACT)*

THE PLANT ESTABLISHMENT PERIOD SHALL BEGIN AT FINAL ACCEPTANCE AND CONTINUE FOR A PERIOD OF ONE YEAR. DURING THAT TIME THE CONTRACTOR SHALL:

1. WARRANTY ALL PLANT MATERIAL DURING THE PLANT ESTABLISHMENT PERIOD AND PROVIDE REPLACEMENT MATERIAL DURING THE FOLLOWING DORMANT SEASON, OCTOBER 15TH - MARCH 1ST.
2. CONTRACTOR SHALL MAINTAIN ALL PLANT MATERIAL INCLUDING BY WEEDING, WATERING AND REFRESHING MULCH AS NEEDED.

a) GENERAL WORK FOR ALL PLANTED AREAS:

i. REMOVE ALL GARDEN LOOSESTRIFE, HIMALAYAN BLACKBERRY AND REED CANARYGRASS OR OTHER INVASIVE PLANTS LISTED BY THE WASHINGTON STATE NOXIOUS WEED BOARD AS CLASS A, B, OR C FROM THE PLANTED AREAS. AT LEAST TWICE YEARLY, REMOVE ALL COMPETING WEEDS AND WEED ROOTS FROM BENEATH EACH INSTALLED PLANT TO A DISTANCE OF 18 INCHES FROM THE MAIN PLANT STEM. WEEDING SHOULD OCCUR IN THE SPRING AND SUMMER.

ii. MORE FREQUENT WEEDING MAY BE NECESSARY DEPENDING ON WEED CONDITIONS THAT DEVELOP.

iii. DO NOT WEED THE AREA NEAR PLANT BASES WITH STRING TRIMMER. NATIVE PLANTS ARE EASILY DAMAGED OR KILLED AND WEEDS RECOVER AFTER TRIMMING.

b) WATERING: THE CONTRACTOR SHALL ENSURE SUFFICIENT WATER IS PROVIDED FOR ALL MITIGATION PLANTING AREAS TO ENSURE ADEQUATE SURVIVAL, GROWTH AND ESTABLISHMENT.

c) MULCH: REFRESH WOOD CHIP MULCH TO ENSURE A 4-INCH DEPTH OF MULCH EXISTS AS SPECIFIED IN ITEM 12 OF THE WORK SEQUENCE ABOVE.

MONITORING PERIOD - MAINTENANCE FOR YEARS 2-5 *(NOT IN CONTRACT)*

THE SITE WILL BE MAINTAINED FOR FIVE YEARS FOLLOWING INSTALLATION.

1) REPLACE EACH PLANT FOUND DEAD IN YEAR 1.

2) REMOVE ALL COMPETING WEEDS FROM AROUND THE BASE OF INSTALLED PLANTS TO A MINIMUM OF 12 INCHES FROM THE PLANT STEMS OR TO THE DRIPLINE, WHICHEVER IS GREATER.

3) REMOVE ALL GARDEN LOOSESTRIFE, HIMALAYAN BLACKBERRY AND REED CANARYGRASS OR OTHER INVASIVE PLANTS LISTED BY THE WASHINGTON STATE NOXIOUS WEED BOARD AS CLASS A, B, OR C FROM THE PLANTED AREAS. WEEDING SHALL TAKE PLACE A MINIMUM OF TWICE PER YEAR. MORE FREQUENT WEEDING MAY BE NECESSARY BASED ON MONITORING REPORTS. WEEDING SHOULD OCCUR BY HAND, BEING CAREFUL TO GRUB OUT ROOTS. MECHANICAL MEANS, SUCH AS STRING TRIMMERS, SHOULD NOT BE USED, AS THESE CAN DAMAGE THE STEMS OF INSTALLED PLANTINGS. IF HAND REMOVAL IS NOT SUCCESSFUL, AN HERBICIDE APPROVED FOR USE IN AQUATIC AREAS MAY BE USED. APPLICATION SHOULD BE BY A TARGETED METHOD, SUCH AS SPOT SPRAY (PREFERRED FOR HIMALAYAN BLACKBERRY) OR WICK.

4) HAND WATER AS NECESSARY DURING HOT SUMMER MONTHS.

5) APPLY **FERTILIZER** YEARLY (YEARS 2-5). FERTILIZER SHALL BE SLOW RELEASE, GRANULAR AND PHOSPHORUS-FREE. FOLLOW MANUFACTURER'S INSTRUCTIONS FOR APPLICATION.

6) REFRESH MULCH RINGS AS NECESSARY TO MAINTAIN A FOUR-INCH THICK LAYER IN THE MITIGATION AREAS. DO NOT MULCH EMERGENT VEGETATION.

7) REMOVE ANY TRASH AND DEBRIS FROM THE PLANTING AREAS.

MATERIAL SPECIFICATIONS AND DEFINITIONS

1) **WOOD CHIP MULCH:** MULCH SHALL MEET THE WSDOT SPECIFICATION 9-14.4(3) AND SHALL CONSIST OF "ARBORIST CHIPS" (CHIPPED WOODY MATERIAL), APPROXIMATELY ONE TO THREE INCHES IN MAXIMUM DIMENSION (NOT SAWDUST OR HOG FUEL). THIS MATERIAL IS COMMONLY AVAILABLE IN LARGE QUANTITIES FROM ARBORISTS OR TREE-PRUNING COMPANIES. MULCH SHALL NOT CONTAIN APPRECIABLE QUANTITIES OF GARBAGE, PLASTIC, METAL, SOIL, AND DIMENSIONAL LUMBER OR CONSTRUCTION/DEMOLITION DEBRIS.

2) **FERTILIZER:** SLOW RELEASE, GRANULAR FERTILIZER OR EQUAL PHOSPHOROUS-FREE PRODUCT. MOST RETAIL NURSERIES CARRY THIS PRODUCT. FOLLOW MANUFACTURER'S INSTRUCTIONS FOR APPLICATION. KEEP FERTILIZER IN A WEATHER-TIGHT CONTAINER WHILE ON SITE. NOTE THAT FERTILIZER IS TO BE APPLIED ONLY IN YEARS 2 THROUGH 5, NOT IN YEAR 1.

3) **COMPOST:** COMPOST SOIL AMENDMENT SHALL MEET WSDOT SPECIFICATION 9-14.4(8) FOR FINE COMPOST.

4) **RESTORATION SPECIALIST:** WATERSHED COMPANY PERSONNEL, OR OTHER PERSONS QUALIFIED TO EVALUATE ENVIRONMENTAL RESTORATION PROJECTS.

ITEMS TO BE CONSTRUCTED
UNDER SEPARATE CONTRACT

RESTORATION PLAN NOTES

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Science & Design

INGLEWOOD NEIGHBORHOOD DRAINAGE
RESTORATION PLAN
PREPARED FOR: OSBORN CONSULTING INC.
PARCELS 3575300175, 3575300170, 3575300165
EAST LAKE SAMMAMISH PKWY NE
SAMMAMISH, WA

SUBMITTALS & REVISIONS

NO.	DATE	DESCRIPTION	BY
1	5-28-15	REVIEW SET	CL
2	10-27-15	ADDED NOTE ON SHEET W2	CL
3	12-28-15	90% PS+E	KMB

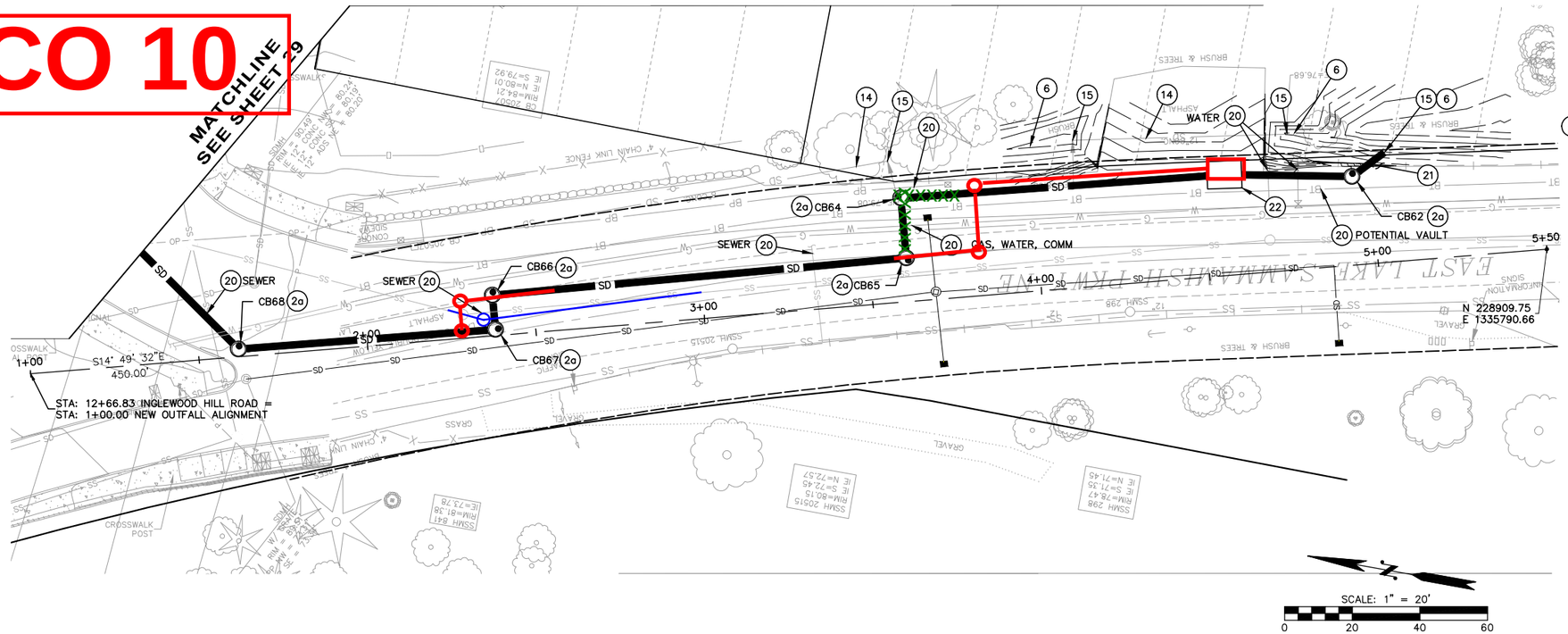
SHEET SIZE:
ORIGINAL PLAN IS 22" x 34".
SCALE ACCORDINGLY.

PROJECT MANAGER: HM
DESIGNED: CL/HM
DRAFTED: CL/KMB
CHECKED: HM/AR
JOB NUMBER: 140311
SHEET NUMBER: 89 SHEET OF 89

DATE 12/30/2015 | PRINTED BY KYLE BRAUN | FILENAME 140311_INGLEWOODMIT PLAN12-28.DWG

CO 10

SEC. 29 , T. 25 N., R. 6 E., W.M.



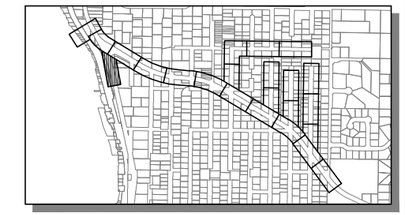
GENERAL NOTES:

1. SEE SHEET 25 FOR TYPICAL ROADWAY SECTIONS. SEE SHEET 78 FOR TRENCH RESTORATION DETAILS.
2. SEE SHEET 26 FOR CURB AND RAINGARDEN DETAILS.
3. SEE SHEETS 49 – 53 FOR CURB RETURNS AND DRIVEWAY DETAILS.
4. ALL STATIONS AND OFFSETS FOR CURBING ARE TO FACE OF CURB, AND STRUCTURES ARE TO CENTER OF STRUCTURE, UNLESS OTHERWISE NOTED.

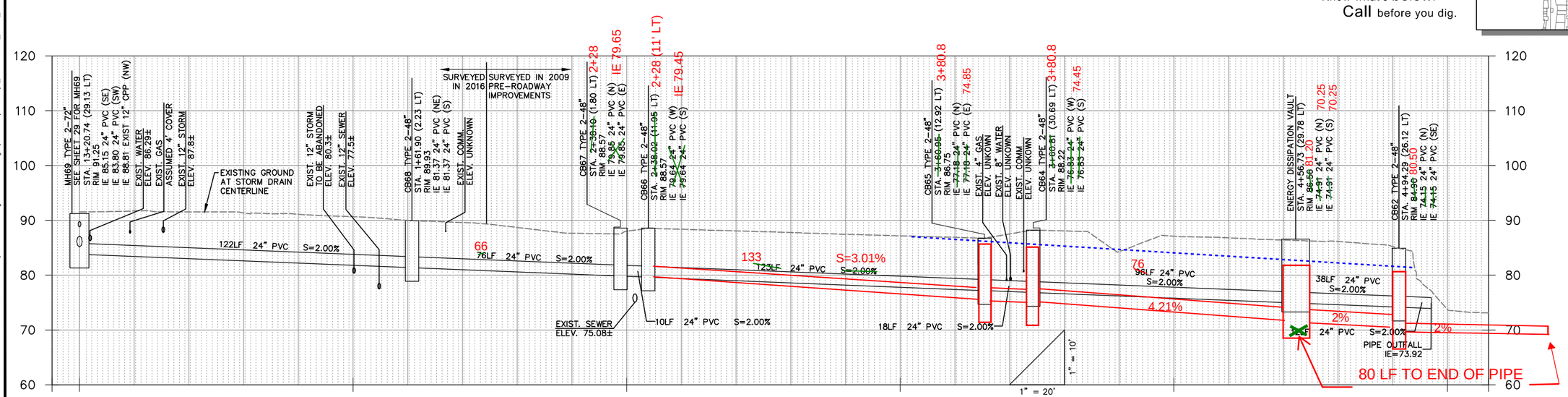
DRAINAGE NOTES:

1. CONCRETE INLET PER WSDOT STANDARD PLAN B–25.60–00.
2. CATCH BASIN TYPE 2 PER WSDOT STANDARD PLAN B–10.20–01
   a. Circular Frame (Ring) and Cover per WSDOT Standard Plan B–30.70–03 with solid locking lid.
   b. Rectangular Vaned Grate per WSDOT Standard Plans B–30.30–01 and B–30.10–01.
3. MODULAR WETLAND SYSTEM PER DETAIL SHEETS 63 – 69, AND 77.
4. EXTEND EXISTING CULVERT PER DETAIL SHEET 77.
5. SAND FILTER VAULT SYSTEM PER DETAILS ON SHEETS 72 – 76.
6. DITCH MAINTENANCE PER SPECIFICATION 2–03.
7. FIELD ADJUST EXISTING FLEXIBLE WATER SERVICE LINE AS NEEDED.
8. 12 IN. DIAM. NYLOPLAST–ADS DRAIN BASIN WITH DOME GRATE PER DETAIL ON SHEET 70 AND 77. FIELD FIT AT LOCALIZED LOW POINT WITHIN 5–FT RADIUS OF THE LOCATION SHOWN ON PLAN.
9. CATCH BASIN TYPE 2 FLOW SPLITTER WITH SOLID LID PER DETAIL 1 SHEET 79.
10. PIPE ANCHOR PER DETAIL SHEET 78.
11. RECTANGULAR VANED GRATE PER WSDOT STANDARD PLAN B–30.30–01.
12. CONNECTION TO DRAINAGE STRUCTURE PER WSDOT STANDARD SPECIFICATION 7–05.3(3).
13. CDS PRE–TREATMENT UNIT PER DETAIL SHEET 71.
14. CLEAN EXISTING CULVERT PER WSDOT STANDARD SPECIFICATION 7–07.
15. CULVERT END PROTECTION, 2–IN TO 4–IN ROCKS PER SPECIFICATION 8–15.
16. RAINGARDEN PER DETAIL SHEET 26.
17. INSTALL EXISTING CB FLOW SPLITTER PER DETAIL 2, SHEET 79.
18. GRASS–LINED V–DITCH PER DETAIL SHEET 78.
19. MANHOLE TYPE 2 PER WSDOT STANDARD PLAN B–15.40–01 WITH CIRCULAR FRAME (RING) AND COVER PER WSDOT STANDARD PLAN B–30.70–03 WITH SOLID LOCKING LID.
20. USE CAUTION AT UTILITY CROSSING. CONTRACTOR TO VERIFY LOCATION OF EXISTING UTILITIES AND INFORM ENGINEER OF ANY CONFLICTS.
21. REMOVE AND RESET BEAM GUARDRAIL AS NEEDED FOR STORM DRAINAGE INSTALLATION. RESET GUARDRAIL SHALL MATCH THE LIMITS OF THE EXISTING GUARDRAIL. RAIL HEIGHT SHALL BE 28 TO 31 INCHES.
22. ENERGY DISSIPATION VAULT PER DETAIL SHEET 89C

811 Know what's below. Call before you dig.



KEY MAP
SCALE: 1"=1000'



SCALE BARS INDICATE SCALE OF FULL-SIZE (22 X 34 INCH) DRAWINGS. FOR REDUCED SIZE DRAWINGS ADJUST SCALE ACCORDINGLY.

NO.	DATE	BY	CKD.	REVISION
8	2/3/17	TNF	LR	OUTFALL ADDENDUM

City of Sammamish

OSBORN CONSULTING INCORPORATED

OSBORN CONSULTING, INC.
1800 112th Ave. NE, Suite 220E Ph (425) 451–4009
Bellevue, WA. 98004 Fax (425) 451–4901

DESIGNED BY: LCR
DRAWN BY: RDH
CHECKED BY: LAT
DATE: FEB. 2016

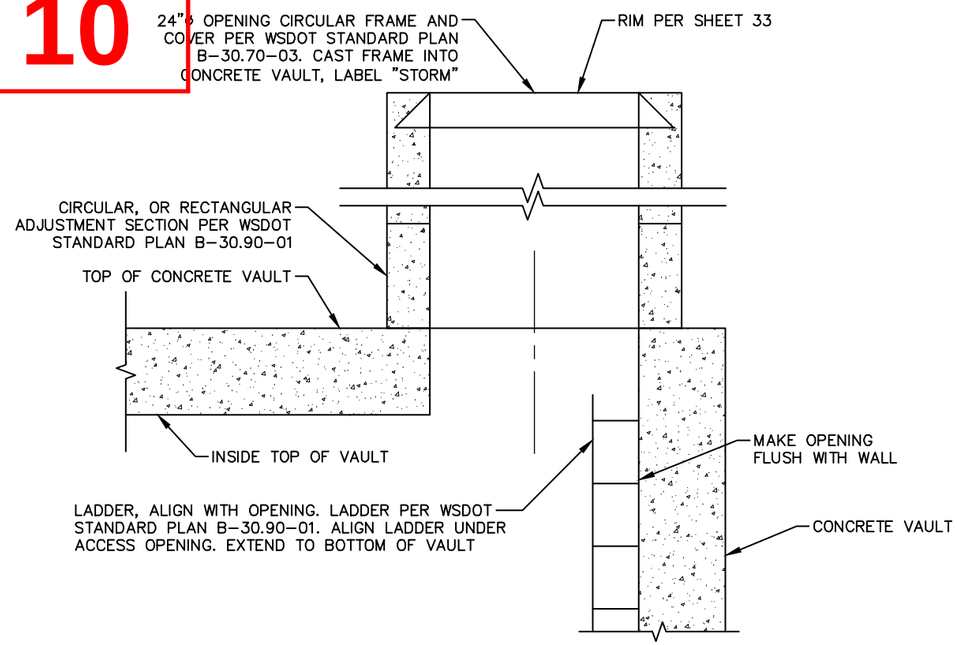
INGLEWOOD HILL STORMWATER AND NON-MOTORIZED IMPROVEMENTS
ROADWAY AND DRAINAGE
OUTFALL

10-140008
OCI PROJECT NO.

89B SHEET OF 89

PLOTTING DATE: 2/15/2017 USER: Travis FranklinFILE NAME: P:\10-140008 Inglewood Drainage\3 CADD\Sheets\P_10-140008_STRM_OUTFALL.dwg

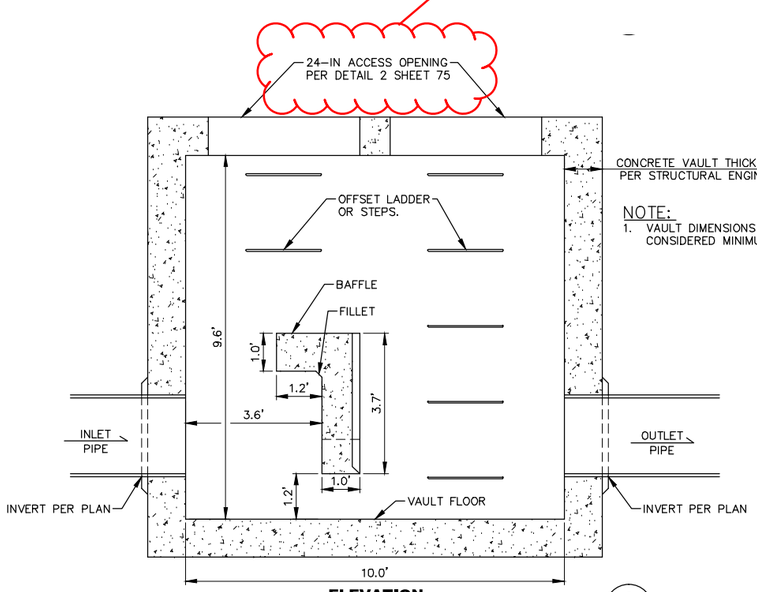
CO 10



ELEVATION VIEW

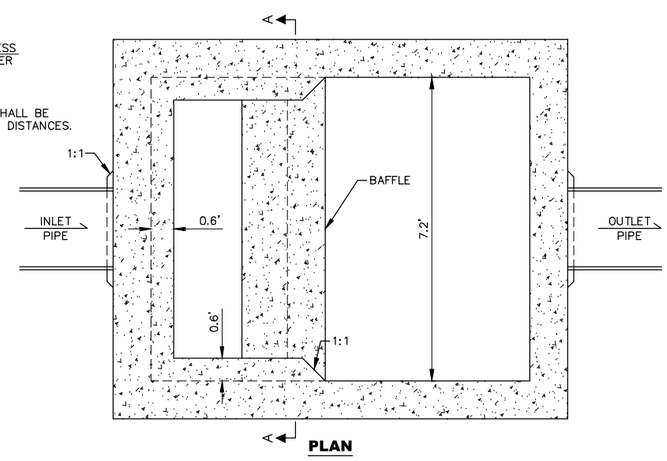
2 24" ACCESS OPENING

N.T.S.

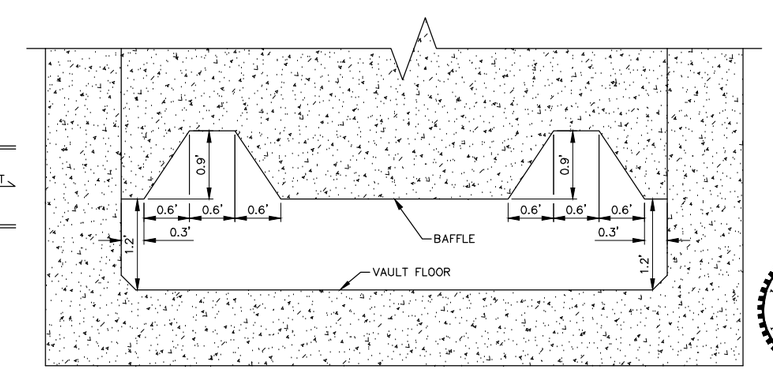


NOTE:
1. VAULT DIMENSIONS SHALL BE CONSIDERED MINIMUM DISTANCES.

ELEVATION



PLAN



SECTION A-A

2 / 89B ENERGY DISSIPATION VAULT

N.T.S.

SCALE BARS INDICATE SCALE OF FULL-SIZE (22 X 34 INCH) DRAWINGS. FOR REDUCED SIZE DRAWINGS ADJUST SCALE ACCORDINGLY.

NO.	DATE	BY	CKD.	REVISION
8	2/3/17	TNF	LR	OUTFALL ADDENDUM
5	8/16/2016	TNF	LR	STORM DRAIN ADJUSTMENTS

City of Sammamish Washington

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DESIGNED BY: LCR
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DATE: FEB. 2016

INGLEWOOD HILL STORMWATER AND NON-MOTORIZED IMPROVEMENTS

FLOW SPLITTER DETAIL

10-140008
OCI PROJECT NO.

89C SHEET OF 89

PLOTTING DATE: 2/17/2017 USER: Travis FranklinFILE NAME: P:\10-140008 Inglewood Drainage\3 CADD\Sheets\P_10-140008_DET_OUTFALL.dwg