



MOUNTLAKE TERRACE CITY HALL

BID SET

**MOUNTLAKE TERRACE, WA 98043
SNOHOMISH COUNTY**

OWNER / APPLICANT:

CITY OF MOUNTLAKE TERRACE
6100 219TH ST SW #200
MOUNTLAKE TERRACE, WA 98043

PROJECT ARCHITECT:

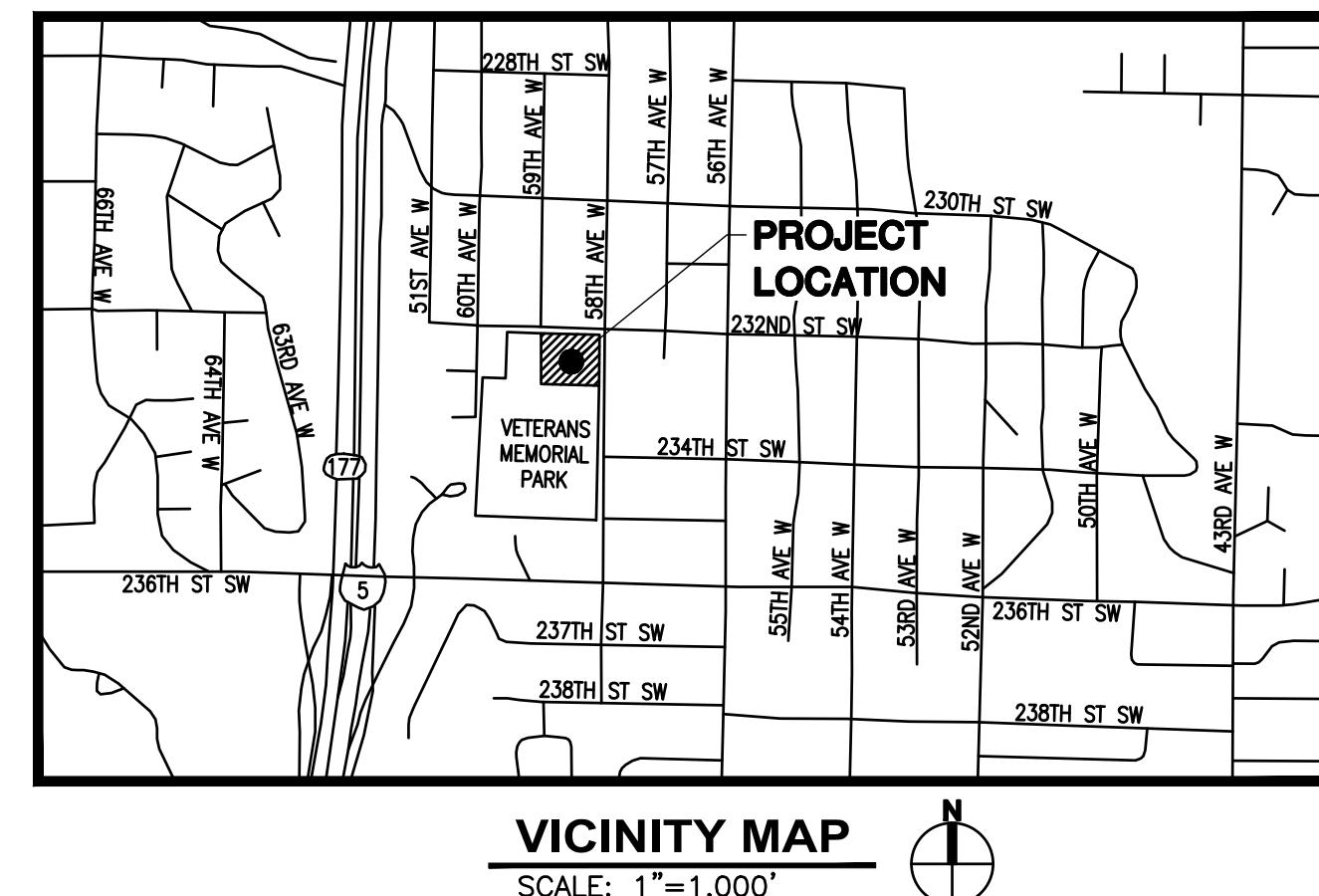
ARC ARCHITECTS
JEFF WANDASIEWICZ
119 S MAIN ST, SUITE 200
SEATTLE, WA 98104
206.322.3322
WANDASIEWICZ@ARCARCHITECTS.COM

LANDSCAPE ARCHITECT

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CONNIE RECKORD
110 PREFONTAINE PL. S, SUITE 600
SEATTLE, WA 98104
206.323.7919
CONNIE@MACLEODRECKORD.COM

CIVIL \ SURVEY

PACE ENGINEERS
PHIL CHEESMAN, PE
11255 KIRKLAND WAY
STE 300
KIRKLAND, WA 98033
425.827.2014
PHIL@PACEENGRS.COM



VICINITY MAP
SCALE: 1"=1,000'

**MOUNTLAKE TERRACE
CITY HALL**

23204 58TH AVE W.
MOUNTLAKE TERRACE, WA 98043



BID SET

ISSUE DATE: 10/16/19

REVISION	DATE	DESCRIPTION

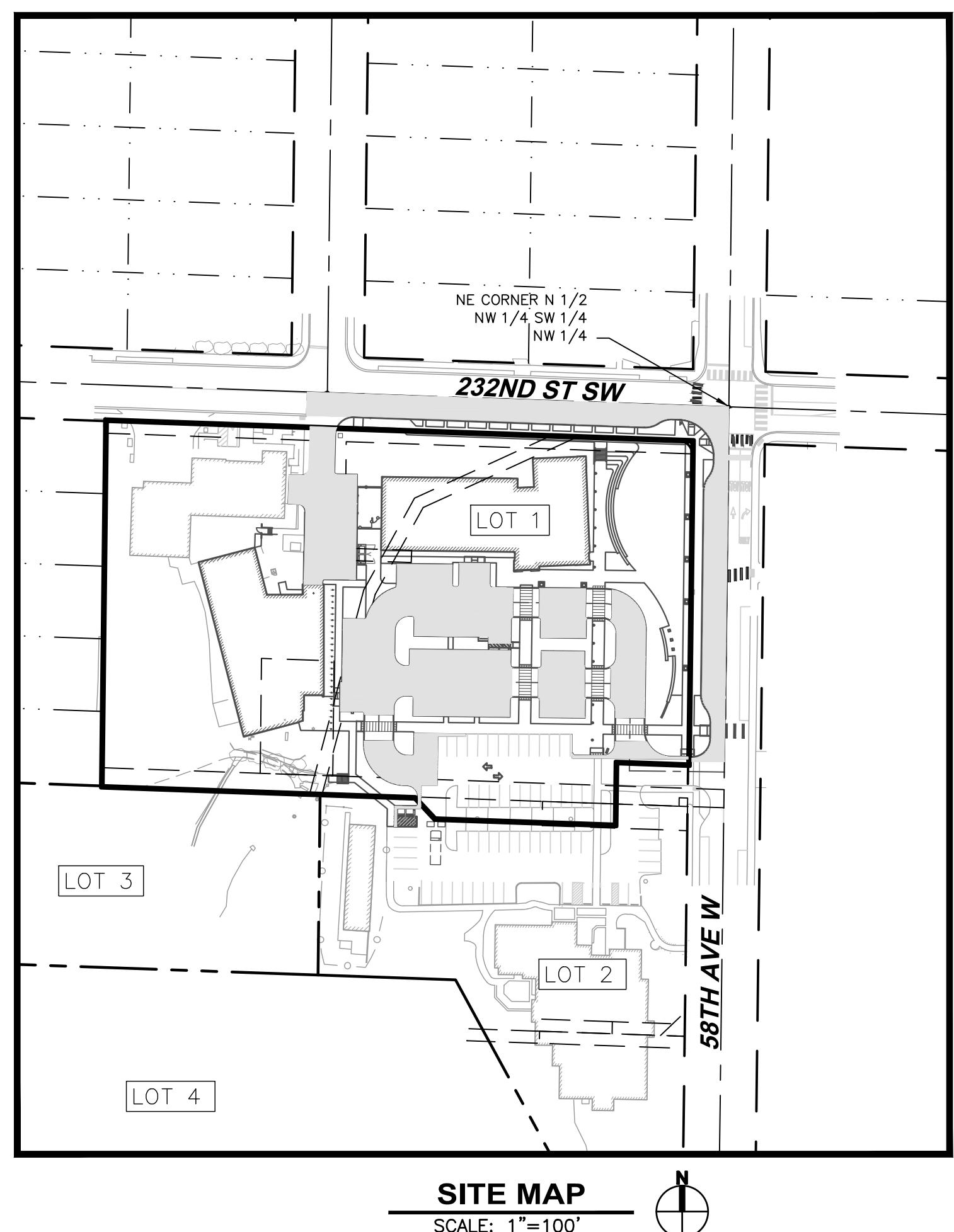
CONTENTS:

**GENERAL
COVER**

SCALE:
DRAWN:
CHECKED:
PROJECT NO.: 18420

SHEET:

C1.0



SITE MAP
SCALE: 1"=100'

City of Mountlake Terrace, WA Civil Permit Approval (Valid only with all the following signatures)	
Civil Engineer	Date:
Planning Division (GED Director or designee)	Date:
Approval subject to all "redlined", permit and/or following conditions:	
<hr/> <hr/> <hr/>	

PROJECT LEGEND

EXISTING	PROPOSED	DESCRIPTION
— —	— —	CENTER LINES
— —	— —	PROPERTY LINES
— — —	— — —	RIGHT-OF-WAY LINES
— — —	— — —	LOT LINES
→ → → → →	→ → → → →	DITCH LINE
→ → → → →	→ → → → →	FLOW LINE
— w —	— w —	WATER LINE
— ss —	— ss —	SANITARY SEWER LINE
— sd —	— sd —	STORM DRAIN LINE
— c —	— c —	GAS LINE
— up —	— up —	UNDERGROUND POWER LINES
— ut —	— ut —	UNDERGROUND TELEPHONE LINES
— utv —	— utv —	UNDERGROUND CABLE TV LINES
— ufo —	— ufo —	UNDERGROUND FIBER OPTIC LINES
— p —	— p —	OVERHEAD POWER LINES
— o h l —	— o h l —	OVERHEAD UTILITY LINES
— o — o — o — o —	— o — o — o —	CHAIN LINK FENCE
— x — x — x — x —	— x — x — x — x —	WIRE FENCE
— □ — □ — □ —	— □ — □ — □ —	WOOD FENCE
— w w w w w —	— w w w w w —	EDGE OF WOODS OR BRUSH

EXISTING	PROPOSED	DESCRIPTION
■	■	WATER VALVE
▲	●	HYDRANT
■	■	WATER METER
◎ ◎	◎ ◎	MANHOLES (SS/SD)
□	□	CB
○	●	POWER/UTILITY POLE
←	←	GUY ANCHOR
△	△	POWER TRANSFORMER
P T	P T	POWER/TELEPHONE VAULT
□ PMET	□ PMET	POWER METER
□	□	TELEPHONE/TV RISER
□	□	GAS VALVE
□	□	GAS METER
○ ○	○ ○	STREET LIGHT
□ □	□ □	LUMINAIRE
X	X	SPOT ELEVATION
□	■	SIGN
□	□	MAILBOX
□ □ □	□ □ □	ROCKERY
★	★	CONIFEROUS TREE
○	○	DECIDUOUS TREE
●	●	FOUND CASED MONUMENT
◆	◆	SET MAGNETIC NAIL W/ WASHER
○	○	WETLAND/STREAM BIOLOGIST FLAG

PROJECT ABBREVIATIONS

ALT	ALTERNATE
APPROX	APPROXIMATE
APW	AMERICAN PUBLIC WORKS
ASPH	ASPHALT
ATB	ASPHALT TREATED BASE
AVE	AVENUE
AWWA	AMERICAN WATER WORKS ASSOCIATION
BM	BENCHMARK
BOT	BOTTOM
BST	BITUMINOUS SURFACE TREATMENT
BLDG	BUILDING
CB	CATCH BASIN
CF	CUBIC FEET
CIP	CAST IRON PIPE
CJ	CONSTRUCTION JOINT
CL	CENTER LINE
CMP	CORRUGATED METAL PIPE
CMU	CONCRETE MASONRY UNIT
CONC	CONCRETE
CPE	CORRUGATED POLYETHYLENE
CULV	CULVERT
CY	CUBIC YARD
DI	DUCTILE IRON
DIAM	DIAMETER
E	EAST
ELEV	ELEVATION
EST	ESTIMATE
EVC	END VERTICAL CURVE
EXIST	EXISTING
FF	FINISH FLOOR
FG	FINISH GRADE
FH	FIRE HYDRANT
FM	FORCE MAIN
FO	FIBER OPTIC
FT	FEET, FOOT
G	GAS
GR	GRADE, GRAVEL
GV	GATE VALVE
HDPE	HIGH DENSITY POLYETHYLENE
HH	HAND HOLE
HP	HIGH POINT
HWY	HIGHWAY
HYD	HYDRANT
ID	INSIDE DIAMETER
IE	INVERT ELEVATION
IN	INCH
INCL	INCLUDING
IRR	IRRIGATION
L	LENGTH
LB	POUND
LF	LINEAL FOOT (FEET)
LS	LUMP SUM
LT	LEFT
MAX	MAXIMUM
MB	MAILBOX
MH	MANHOLE
MIC	MONUMENT IN CASE
MISC	MISCELLANEOUS
MJ	MECHANICAL JOINT
MOC	MIDDLE OF CURVE
MON	MONUMENT
N	NORTH
N/A	NON APPLICABLE
NIC	NOT IN CONTRACT
NO.	NUMBER
NTS	NOT TO SCALE
O.C.	ON CENTER
O.D.	OUTSIDE DIAMETER
OHP	OVERHEAD POWER LINE
OHP&T	OVERHEAD POWER & TELEPHONE
PC	POINT OF CURVATURE
PE	PLAIN END
PI	POINT OF INTERSECTION
PL	PROPERTY LINE
PP	POWER POLE
PRV	PRESSURE REGULATION VALVE POINT
PT	POINT OF TANGENCY
PUD	PUBLIC UTILITY DISTRICT
PVC	POLYVINYL CHLORIDE
PVI	POINT OF VERTICAL INTERSECTION
R	RADIUS
RG	ROUGH GRADE
RP	RADIUS POINT, REFERENCE POINT
RJ	RESTRAINT JOINT
ROW	RIGHT OF WAY
RT	RIGHT
SS	SANITARY SEWER
SCH	SCHEDULE
SD	STORM DRAIN
SF	SQUARE FEET
SHT	SHEET
SIM	SIMILAR
S	SLOPE
ST	STREET
STA	STATION
STD	STANDARD
ST	STEEL
STR	STRUCTURAL
SD	STORM DRAIN
SY	SQUARE YARD
TOC	TOP OF CURB
TOP	TOP OF PIPE
TYP	TYPICAL
UP	UNDERGROUND POWER LINE
VC	VERTICAL CURVE
VPI	VERTICAL POINT OF INTERSECTION
W	WEST, WATER
W/W	WITH
WM	WATER MAIN

NOTES:

HORIZONTAL DATUM: NAD 83/91 BASED ON SNOHOMISH COUNTY SURVEY CONTROL POINTS 1477 & 1478 (MONUMENTS ON 236TH ST. S.W.)

VERTICAL DATUM: NAVD 29 BASED ON CITY OF MOUNTLAKE TERRACE BENCHMARK NO. 236-17 PUBLISHED ELEV. 450.49'

ALL DISTANCES SHOWN ARE GROUND DISTANCES UNLESS OTHERWISE NOTED.

THE LOCATION AND DESCRIPTION OF ALL SURVEY MARKERS SHOWN HEREON ARE BASED ON FIELD OBSERVATIONS TAKEN ON APRIL 5TH, 2004, UNLESS OTHERWISE INDICATED.

WORK PERFORMED IN CONJUNCTION WITH THIS SURVEY UTILIZED THE FOLLOWING EQUIPMENT AND PROCEDURES: (A) 2" GEODIMETER 600 SERIES ELECTRONIC TOTAL STATION, MAINTAINED TO THE MANUFACTURER'S SPECIFICATIONS PER W.A.C. 332-130-100. (B) FIELD TRAVERSE, EXCEEDING REQUIREMENTS SET FORTH IN W.A.C. 332-130-090.

THIS TOPOGRAPHIC SURVEY DRAWING ACCURATELY PRESENTS SURFACE FEATURES LOCATED DURING THE COURSE OF THIS SURVEY. UNDERGROUND UTILITIES SHOWN HEREON ARE BASED SOLELY UPON INFORMATION PROVIDED BY OTHERS AND PACE ENGINEERS DOES NOT ACCEPT RESPONSIBILITY OR ASSUME LIABILITY FOR THEIR ACCURACY OR COMPLETENESS.

CONTRACTOR/ENGINEERS SHALL VERIFY EXACT SIZE AND LOCATION PRIOR TO CONSTRUCTION.

CALL FOR LOCATE: UTILITY LOCATION SERVICE: 1-800-425-5555.

ALL MONUMENTS INDICATED AS FOUND WERE RECOVERED DURING THE COURSE OF THIS SURVEY AT THE DATE SHOWN IN THE SURVEYOR'S CERTIFICATE, UNLESS OTHERWISE NOTED.

SITE INFORMATION

ADDRESS:

23204 48TH AVE W
MOUNTLAKE TERRACE, WA 98043

IMPERVIOUS AREA:

EXISTING IMPERVIOUS AREA= 1.27 ACRES
NEW/REPLACED IMPERVIOUS AREA= 1.89 ACRES
(FRONTAGE & ON-SITE)
PROJECT AREA= 2.80 ACRES

PARCEL NUMBER:

PARCEL NUMBER: 0074600000100



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TEMPORARY EROSION AND SEDIMENT CONTROL GENERAL NOTES

- PRIOR TO ANY CONSTRUCTION, RECONSTRUCTION, OR RENOVATION ACTIVITY, THE CITY OF MOUNTLAKE TERRACE ENGINEERING DEPARTMENT MUST BE CONTACTED FOR A PRECONSTRUCTION MEETING (425-776-1161).
- AN APPROVED COPY OF THESE PLANS MUST BE ON SITE AT ALL TIMES.
- ALL LIMITS OF CLEARING AND AREAS OF VEGETATION PRESERVATION AS PRESCRIBED ON THE PLANS SHALL BE CLEARLY FLAGGED IN THE FIELD AND MAINTAINED DURING CONSTRUCTION.
- WHERE POSSIBLE, MAINTAIN NATURAL VEGETATION FOR SILT CONTROL AND TO MINIMIZE EROSION CONTROL MEASURES, AND DIRECT SURFACE RUNOFF AWAY FROM THE EXPOSED AREAS, STEEP SLOPES, OR EROSION HAZARD AREA.
- ALL REQUIRED SEDIMENTATION/EROSION CONTROL FACILITIES MUST BE CONSTRUCTED AND IN OPERATION PRIOR TO ANY LAND CLEARING AND/OR OTHER CONSTRUCTION TO INSURE THAT SEDIMENT-LADEN WATER DOES NOT ENTER THE NATURAL DRAINAGE SYSTEM OR OFF-SITE STORM DRAINS. (SEE CONSTRUCTION SEQUENCE.) ALL EROSION AND SEDIMENT FACILITIES SHALL BE MAINTAINED IN A SATISFACTORY CONDITION UNTIL SUCH TIME THAT CLEARING AND/OR CONSTRUCTION IS COMPLETED AND THE POTENTIAL FOR ON-SITE EROSION HAS PASSED. SYSTEM IMPLEMENTATION, MAINTENANCE, AND REPLACEMENT SHALL BE THE RESPONSIBILITY OF THE PERMITTEE, ALONG WITH ANY REQUIRED ADDITIONS.
- THE EROSION AND SEDIMENTATION CONTROL SYSTEMS DEPICTED ARE INTENDED TO BE MINIMUM REQUIREMENTS TO MEET ANTICIPATED SITE CONDITIONS. AS CONSTRUCTION PROGRESSES AND UNEXPECTED OR SEASONAL CONDITIONS DICTATE, THE PERMITTEE SHOULD ANTICIPATE THAT MORE EROSION AND SEDIMENTATION CONTROL FACILITIES MAY BE NECESSARY TO INSURE COMPLETE EROSION AND SEDIMENT CONTROL ON THE SITE. DURING THE COURSE OF CONSTRUCTION, IT SHALL BE THE OBLIGATION AND RESPONSIBILITY OF THE PERMITTEE TO ADDRESS ANY NEW CONDITIONS THAT MAY BE CREATED BY HIS ACTIVITIES AND TO PROVIDE ADDITIONAL FACILITIES, OVER AND ABOVE MINIMUM REQUIREMENTS SHOWN, AS MAY BE NEEDED TO PROTECT ADJACENT PROPERTIES AND WATER QUALITY OF THE RECEIVING DRAINAGE SYSTEM. ADDITIONAL MEASURES MAY ALSO BE REQUIRED BY THE CITY OF MOUNTLAKE TERRACE INSPECTOR.
- APPROVAL OF THE PLAN IS FOR EROSION/SEDIMENTATION CONTROL ONLY. IT DOES NOT CONSTITUTE AN APPROVAL OF STORM DRAINAGE DESIGN, SIZE OR LOCATION OF PIPES, RESTRICTORS, CHANNELS, OR RETENTION FACILITIES.
- IN ANY WORK WHICH HAS BEEN STRIPPED OF VEGETATION AND WHERE NO FURTHER WORK IS ANTICIPATED FOR A PERIOD OF 30 DAYS OR MORE, ALL DISTURBED AREAS MUST BE IMMEDIATELY STABILIZED WITH MULCHING, HYDROSEEDING, OR OTHER APPROVED EROSION CONTROL MEASURE APPLICABLE TO THE TIME OF YEAR IN QUESTION. GRASS SEEDING ALONE WILL BE ACCEPTABLE ONLY DURING THE MONTHS OF APRIL THROUGH SEPTEMBER INCLUSIVE. SEEDING MAY PROCEED WHENEVER IT IS IN THE INTEREST OF THE PERMITTEE, BUT MUST BE AUGMENTED WITH MULCHING, NETTING, OR OTHER MEASURES APPROVED BY THE CITY OF MOUNTLAKE TERRACE, OUTSIDE OF THE SPECIFIED TIME PERIOD.
- GRASS SEEDING SHALL BE DONE USING AN APPROVED TYPE HYDRO-SEEDER, OR AS OTHERWISE APPROVED BY THE CITY OF MOUNTLAKE TERRACE. SEED MIX SHALL CONSIST OF RAPID, PERSISTENT, AND LEGUME GRASSES (MIN. 80LB. PER ACRE) AS NOTED BELOW UNLESS OTHERWISE APPROVED BY THE CITY ENGINEER:
 - 70% PERENNIAL RYEGRASS(3 VARIETIES)
 - 30% RED AND/OR CHEWINGS FESCUES(2 VARIETIES)
- STRAW MULCH SHALL CONSIST OF A MINIMUM THICKNESS OF FOUR (4) INCHES SPREAD EVENLY OVER THE SURFACE TO BE PROTECTED. MULCH MUST BE PROPERLY ANCHORED TO THE GROUND. NETTING MAY BE REQUIRED TO HOLD MULCH IN PLACE ON STEEP SLOPES.
- A MINIMUM THREE (3) FOOT HIGH CHAIN LINK FENCE SHALL BE CONSTRUCTED AROUND ANY POND USED FOR SEDIMENTATION AND/OR DETENTION WHEN IT CAN BE EXPECTED THAT THE WATER DEPTH WILL EXCEED ONE (1) FOOT.
- THE CONTRACTOR SHALL ASSURE THAT NO CONCRETE OR CONCRETE BY-PRODUCTS, CHEMICALS, PAINTS, GLUES, OR ANY OTHER POLLUTANTS ENTER THE STORM DRAINAGE SYSTEM OR NATURAL STREAM COURSES.
- REMOVE ALL TEMPORARY EROSION CONTROL MEASURES WHEN THE EROSION HAZARD IS COMPLETELY OVER. REMOVE ALL DEPOSITED SEDIMENT AND DEBRIS AND REHABILITATE THE DISTURBED AREAS BY PLANTING VEGETATIVE COVER AS REQUIRED BY THE CITY OF MOUNTLAKE TERRACE.
- THE APPLICANT SHALL PROVIDE FOR A CERTIFIED PROFESSIONAL IN EROSION AND SEDIMENT CONTROL TO BE ON-SITE OR ON-CALL AT ALL TIMES. A SPILL CONTROL KIT SHALL BE KEPT ON-SITE FOR ALL CONSTRUCTION EQUIPMENT.

GRADING GENERAL NOTES

- ALL WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH THE "STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION," WASHINGTON STATE DEPARTMENT OF TRANSPORTATION, CURRENT EDITION, TOGETHER WITH THE LATEST EDITION OF THE CITY OF MOUNTLAKE TERRACE ENGINEERING STANDARDS.
- AN APPROVED COPY OF THESE PLANS MUST BE ON SITE WHENEVER CONSTRUCTION IS IN PROGRESS.
- IT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN STREET USE AND ANY OTHER RELATED PERMITS PRIOR TO ANY CONSTRUCTION ACTIVITY IN CITY RIGHT-OF-WAY.
- PRIOR TO ANY CONSTRUCTION ACTIVITY, THE CITY OF MOUNTLAKE TERRACE ENGINEERING DEPARTMENT (425-776-1161) MUST BE CONTACTED FOR A PRECONSTRUCTION MEETING.
- ALL LOCATIONS OF 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. THE CONTRACTOR SHALL CONTACT THE UTILITIES UNDERGROUND LOCATION SERVICE (1-800-424-5555) PRIOR TO CONSTRUCTION. THE OWNER OR HIS REPRESENTATIVE SHALL BE IMMEDIATELY CONTACTED IF A UTILITY CONFLICT EXISTS.
- THE TEMPORARY EROSION/SEDIMENTATION CONTROL FACILITIES SHALL BE CONSTRUCTED PRIOR TO ANY GRADING OR EXTENSIVE LAND CLEARING IN ACCORDANCE WITH THE APPROVED TEMPORARY EROSION/SEDIMENTATION CONTROL PLANS. THESE FACILITIES MUST BE SATISFACTORILY MAINTAINED UNTIL CONSTRUCTION AND LANDSCAPING IS COMPLETED AND THE POTENTIAL FOR ON-SITE EROSION HAS PASSED.
- ALL ROCKERIES SHALL CONFORM WITH THE CITY OF MOUNTLAKE TERRACE STANDARD PLAN NO. 601. A FOUR (4) INCH MINIMUM DIAMETER PVC PERFORATED PIPE, OR EQUAL, WILL BE INSTALLED BEHIND THE ROCKERY AT OR BELOW THE BOTTOM OF THE LOWEST ROCK IN THE ROCKERY BACKFILL (SEE DETAIL). THIS PIPE SHALL BE DIRECTLY CONNECTED TO THE UNDERGROUND STORM DRAINAGE SYSTEM WITH NON-PERFORATED PVC PIPE OR AS OTHERWISE SHOWN ON THE PLANS.
- ALL EARTHWORK UNDER PAVING SHALL BE COMPAKTED TO MINIMUM 95% DRY OPTIMUM DENSITY PER ASTM D-1557, OR LATEST REVISION, (MODIFIED PROCTOR).
- UNLESS OTHERWISE NOTED, ALL ELEVATIONS SHOWN IN PAVED AREAS ON THE PLANS ARE TOP OF PAVING.
- SEE TEMPORARY EROSION/SEDIMENTATION CONTROL GENERAL NOTES FOR ACCEPTABLE EROSION CONTROL MEASURES UPON COMPLETION OF GRADING.
- MAJOR EXPOSED GRADED SLOPES SHOWN ON THESE PLANS SHALL BE PROTECTED WITH PLASTIC SHEETS UNTIL SUCH TIME AS THE VEGETATIVE COVER HAS BEEN ESTABLISHED SUFFICIENTLY TO ELIMINATE EROSION.
- GRADES SHOWN REPRESENT THE ENGINEER'S ESTIMATE OF APPROXIMATE MINIMUM EARTHWORK, PRESERVATION OF THE MAXIMUM NUMBER OF EXISTING TREES, AND OTHER GRADING/SOIL CONSIDERATIONS. THE CONTRACTOR MAY ALTER THE GRADES SHOWN TO BETTER ACHIEVE THESE RESULTS, PROVIDED THAT ANY ALTERATION IS SUBJECT TO THE PRIOR APPROVAL IN WRITING BY THE ENGINEER, OWNER, AND THE APPROPRIATE DEPARTMENTS OF THE CITY OF MOUNTLAKE TERRACE.
- THE SITE WORK IMPROVEMENTS SHALL BE CONSTRUCTED ACCORDING TO THE APPROVED PLANS WHICH ARE ON FILE IN THE ENGINEERING DEPARTMENT. ANY DEVIATION FROM THE APPROVED PLANS WILL REQUIRE APPROVAL FROM THE PROPER AGENCY.
- THE CONTRACTOR SHALL KEEP PARKING LOTS AND STREETS CLEAN AT ALL TIMES BY SWEEPING, WASHING OF ANY STREETS, PARKING LOTS OR DRIVEWAYS TO REMOVE CONSTRUCTION RELATED DIRT IS STRICTLY FORBIDDEN AND SUBJECT TO FINES.
- ALL PARKING AND DRIVEWAY AREAS TO HAVE POSITIVE DRAINAGE TO COLLECTION, CONVEYANCE SYSTEMS OR OVERLAND SHEET DRAIN AREAS AT A MINIMUM OF ONE PERCENT SLOPE. PLAN DETAILS SHALL NOT SUPERSEDE THIS REQUIREMENT.
- OPEN-CUT ROAD CROSSINGS FOR UTILITY TRENCHES ON EXISTING TRAVELED ROADWAYS SHALL BE BACKFILLED IN ACCORDANCE WITH CITY OF MOUNTLAKE TERRACE STANDARD PLAN NO. 112 AND MECHANICALLY COMPAKTED. CUTS INTO THE EXISTING ASPHALT SHALL BE NEAT LINE CUT WITH SAW IN A CONTINUOUS LINE. A TEMPORARY COLD MIX PATCH MUST BE PLACED IMMEDIATELY AFTER BACKFILL AND COMPACTION. A PERMANENT HOT MIX PATCH SHALL BE PLACED WITHIN 30 DAYS AND SHALL BE THE THICKNESS OF THE ORIGINAL ASPHALT, OR THREE (3) INCHES, WHICHEVER IS GREATER. A 2" THICK ATB TEMPORARY PATCH MAY BE USED IN LIEU OF A COLD MIX PATCH.
- EXTRUDED CEMENT CONCRETE CURBS AROUND ASPHALT EDGES SHALL BE CONSTRUCTED IN ACCORDANCE WITH CITY OF MOUNTLAKE TERRACE STANDARD PLAN NO. 109.
- EXISTING VEGETATION SHALL BE RETAINED IN AREAS WHERE GRADING IS UNNECESSARY.
- ALL RECOMMENDATIONS MADE BY THE GEOTECHNICAL ENGINEER(S) UP TO NOW, OR AT ANY TIME IN THE FUTURE, INCLUDING, BUT NOT LIMITED TO RECOMMENDATIONS FOR CONSTRUCTION TECHNIQUES, CONSTRUCTION SCHEDULE, AND CONTROL OF STORM WATER RUNOFF THROUGHOUT THE PROJECT COMPLETION SHALL BE FOLLOWED. WHOEVER CONSTRUCTS SITE IMPROVEMENTS SHALL RETAIN A LICENSED GEOTECHNICAL ENGINEER TO OVERSEE AND ADVISE DURING CONSTRUCTION AND SITE GRADING TO ASSURE THAT ALL GEOTECHNICAL RECOMMENDATIONS ARE ADHERED TO. THE APPLICANT IS RESPONSIBLE FOR PROVIDING SPECIAL INSPECTION AND COMPAKCTION CERTIFICATION FOR THE BUILDING PADS, UTILITY TRENCHES, RETAINING WALLS AND DETENTION VAULT/TANK BACKFILL.

STORM DRAINAGE GENERAL NOTES

- ALL WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH THE "STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION," WASHINGTON STATE DEPARTMENT OF TRANSPORTATION, CURRENT EDITION, TOGETHER WITH THE LATEST EDITION OF THE CITY OF MOUNTLAKE TERRACE ENGINEERING STANDARDS.
- AN APPROVED COPY OF THESE PLANS MUST BE ON SITE WHENEVER CONSTRUCTION IS IN PROGRESS.
- IT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN STREET USE AND ANY OTHER RELATED PERMITS PRIOR TO ANY CONSTRUCTION ACTIVITY IN CITY RIGHT-OF-WAY.
- PRIOR TO ANY CONSTRUCTION ACTIVITY, THE CITY OF MOUNTLAKE TERRACE ENGINEERING DEPARTMENT (425-776-1161) MUST BE CONTACTED FOR A PRECONSTRUCTION MEETING.
- ALL LOCATIONS OF 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. THE CONTRACTOR SHALL CONTACT THE UTILITIES UNDERGROUND LOCATION SERVICE (1-800-424-5555) PRIOR TO CONSTRUCTION. THE OWNER OR HIS REPRESENTATIVE SHALL BE IMMEDIATELY CONTACTED IF A UTILITY CONFLICT EXISTS.
- TESTING OF ALL STORM SEWER PIPE WILL BE AT THE OPTION OF THE CITY OF MOUNTLAKE TERRACE. ALL PIPE WILL BE INSPECTED BY TV VIEWING.
- WHEN PLAIN ALUMINUM PIPE ARCH IS USED WHERE IT WILL BE IN CONTACT WITH CONCRETE OR CONCRETE PIPE, ALL ALUMINUM SURFACES IN CONTACT WITH THE CONCRETE OR CONCRETE PIPE SHALL BE PAINTED WITH TWO COATS OF PAINT. THE ALUMINUM PIPE TO BE PAINTED SHALL BE CLEANED WITH SOLVENT TO REMOVE CONTAMINANTS. AFTER CLEANING, THE PIPE SHALL BE PAINTED WITH TWO COATS OF PAINT CONFORMING TO FEDERAL SPECIFICATION TT-P-645 (PRIMER, PAINT, ZINC CHROMATE, ALKYD VEHICLE).
- AN AS BUILT STORM SEWER DRAWING SHALL BE SUBMITTED FOR ALL DEVELOPMENTS, SHORT PLATS, AND SUBDIVISIONS.
- SAND COLLARS OR OTHER CITY APPROVED COUPLINGS ARE REQUIRED ON ALL PVC PIPE CONNECTIONS TO CONCRETE CATCH BASINS OR MANHOLES.
- ALL STORM SEWERS SHALL BE DESIGNED AND CONSTRUCTED TO GIVE MEAN VELOCITIES, WHEN FLOWING FULL, OF NOT LESS THAN 3 FEET PER SECOND.
- FOR CITY MAINTAINED STORM SYSTEMS, TRASH RACKS SHALL BE INSTALLED ON THE UPSTREAM END OF PIPES OR CULVERTS.
- ROCK SIZE: PERCENTAGE:
8" 40% TO 70%
2" TO 4" 20% TO 40%
1/2" TO 2" 10% TO 40%

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CITY HALL

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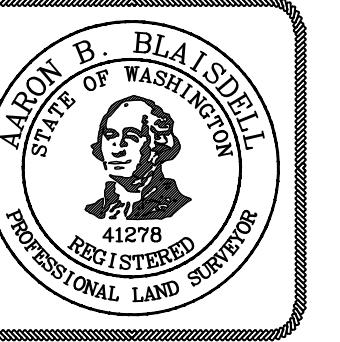
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WATER GENERAL NOTES

1. ALL WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH THE "STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION," WASHINGTON STATE DEPARTMENT OF TRANSPORTATION, CURRENT EDITION, TOGETHER WITH THE LATEST EDITION OF THE CITY OF MOUNTLAKE TERRACE ENGINEERING STANDARDS.
2. AN APPROVED COPY OF THESE PLANS MUST BE ON SITE WHENEVER CONSTRUCTION IS IN PROGRESS.
3. IT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN STREET USE AND ANY OTHER RELATED PERMITS PRIOR TO ANY CONSTRUCTION ACTIVITY IN CITY RIGHT-OF-WAY.
4. PRIOR TO ANY CONSTRUCTION ACTIVITY, THE CITY OF MOUNTLAKE TERRACE ENGINEERING DEPARTMENT (425-776-1161) MUST BE CONTACTED FOR A PRECONSTRUCTION MEETING.
5. ALL LOCATIONS OF 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. THE CONTRACTOR SHALL CONTACT THE UTILITIES UNDERGROUND LOCATION SERVICE (1-800-424-5555) PRIOR TO CONSTRUCTION. THE OWNER OR HIS REPRESENTATIVE SHALL BE IMMEDIATELY CONTACTED IF A UTILITY CONFLICT EXISTS.
6. THE WATER MAIN DISTRIBUTION SYSTEM SHALL BE CONSTRUCTED ACCORDING TO THE APPROVED PLANS WHICH ARE ON FILE IN THE CITY OF MOUNTLAKE TERRACE ENGINEERING DEPARTMENT. ANY DEVIATION FROM THE APPROVED PLANS WILL REQUIRE WRITTEN APPROVAL FROM THE PROPER AGENCY.
7. CONNECTIONS TO EXISTING FACILITIES SHALL BE SEALED OFF UNTIL CONSTRUCTION IS COMPLETED. NO CONNECTIONS WILL BE ALLOWED UNTIL THE NEW WATER MAINS HAVE PASSED ALL PRESSURE AND PURITY TESTS.
8. WATER MAIN PIPE, BEDDING AND TRENCH COMPACTION:
 - A. ALL WATER MAIN PIPES TO BE CEMENT LINED, CLASS 52 DUCTILE IRON, CONFORMING TO STANDARD SPECIFICATIONS 9-30.1(1). CEMENT MORTAR LINING AND SEAL COATING SHALL CONFORM TO ANSI/AWWA C104, OR LATEST REVISION.
 - B. PIPE JOINTS TO BE PUSH-ON, MECHANICAL OR FLANGE JOINTS.
 - C. ALL WATER MAIN PIPE FITTINGS SHALL MEET ANSI/AWWA C110, AND TO BE CEMENT MORTAR LINED AND SEAL COATED CONFORMING TO ANSI/AWWA C104 OR LATEST REVISIONS.
 - D. PIPE BEDDING SHALL BE 5/8" MINUS CRUSHED SURFACING TOP COURSE (CSTC) OR AS DIRECTED BY THE ENGINEER OR AS DESIGNATED ON THE PLAN.
 - E. ALL WATER MAIN CEMENT CONCRETE THRUST BLOCKS TO CONFORM TO STANDARD DETAILS SHOWN ON THE PLANS ON THE CITY OF MOUNTLAKE TERRACE STANDARD PLAN NO. 212 OR 212A.
 - F. ALL WATER MAIN TRENCH BACKFILL SHALL BE COMPACTED TO MINIMUM 95% DRY OPTIMUM DENSITY PER ASTM D1557, OR LATEST REVISION, (MODIFIED PROCTOR) PRIOR TO TESTING WATER MAINS FOR ACCEPTANCE.
9. MAINTAIN A MINIMUM COVER OF 36" TO FINISHED GRADE ON ALL WATER MAIN PIPES. WHERE UTILITY CONFLICTS OCCUR, OTHER THAN SANITARY SEWER WATER MAINS ARE TO BE LOWERED TO CLEAR. SEE "CRITERIA FOR SEWAGE DESIGN", WASHINGTON STATE DEPARTMENT OF ECOLOGY FOR SEWER CONFLICTS. LINES SHALL BE MARKED AND STAKED FOR LINE AND GRADE.
10. ALL WATER MAINS SHALL BE PRESSURE TESTED AND DISINFECTED IN ACCORDANCE WITH THE SPECIFICATIONS OF THE WASHINGTON STATE HEALTH DEPARTMENT. ALL INSPECTION AND PRESSURE TESTING SHALL BE DONE IN THE PRESENCE OF, AND UNDER THE SUPERVISION OF, THE CITY ENGINEER AND/OR HIS REPRESENTATIVE.
11. CONTRACTOR TO PROVIDE PLUGS AND/OR TEMPORARY BLOW-OFF ASSEMBLIES FOR TESTING AND PURITY ACCEPTANCE PRIOR TO FINAL TIE IN.
12. ALL GATE VALVES TO BE RESILIENT SEATED AND SHALL BE MANUFACTURED TO MEET OR EXCEED THE REQUIREMENTS OF ANSI/AWWA C509, OR LATEST REVISION. 12" VALVE INSTALLATIONS REQUIRE BUTTERFLY VALVES.
13. FIRE HYDRANTS:
 - A. ALL FIRE HYDRANTS SHALL CONFORM TO THE CITY OF MOUNTLAKE TERRACE STANDARD PLAN NO. 201.
 - B. ALL FIRE HYDRANT PORTS SHALL FACE PERPENDICULAR TO CURB AND TOWARD DRIVEWAY AS SHOWN ON THE PLANS.
14. WATER MAIN SERVICES:
 - A. ALL WATER MAIN SERVICE LINES TO BE TYPE "K" COPPER. SERVICE CONNECTIONS SHALL BE IN ACCORDANCE WITH CITY OF MOUNTLAKE TERRACE STANDARD PLAN NO. 202 TO 2026, 203 OR NO. 204. DOUBLE STRAPS WITH ATTACHMENT CORPORATION STOPS. NOT ALLOWED UNLESS APPROVED BY CITY ENGINEER.
 - B. WATER METERS 2" AND SMALLER TO BE SUPPLIED AND INSTALLED BY THE CITY OF MOUNTLAKE TERRACE.
15. THE WATER MAIN SHALL BE SET A MINIMUM OF 5 FEET TOWARD THE ROADWAY CENTERLINE FROM THE CURB, UNLESS OTHERWISE SHOWN ON THE PLANS. BUILDINGS SHALL NOT BE PERMITTED WITHIN 10 FEET, OR CARPORTS WITHIN 5 FEET, OF THE SPRING LINE OF ANY WATER MAIN WHERE APPLICABLE, UNLESS OTHERWISE SHOWN ON THE PLANS.
16. ALL WATER MAINS NOT IN PUBLIC RIGHT-OF-WAY REQUIRE 10 FOOT WIDE EASEMENTS TO THE CITY OF MOUNTLAKE TERRACE.
17. ALL VALVES, EXISTING AND NEW, SHALL BE OPERATED ONLY BY THE CITY OF MOUNTLAKE TERRACE. NO EXCEPTIONS!
18. A STATE APPROVED BACKFLOW PREVENTION DEVICE MUST BE INSTALLED ON ALL IRRIGATION SYSTEMS, FIRE SYSTEMS, INDUSTRIAL WATER SYSTEMS, AND ANY OTHER WATER CONNECTION THAT MAY HAVE A POSSIBILITY OF A CROSS CONTAMINATION CONNECTION AS DETERMINED BY THE CITY'S CERTIFIED CROSS CONNECTION TECHNICIAN.
19. CONSTRUCTION OF DEWATERING SYSTEMS SHALL BE IN ACCORDANCE WITH STANDARD SPECIFICATION SECTION 7-09.3(7)a.
20. AN AS BUILT WATER PLAN SHALL BE SUBMITTED FOR ALL DEVELOPMENTS, SHORT PLATS AND SUBDIVISIONS.
21. ALL TAPPING SLEEVES SHALL BE CAST IRON MJ OR AS DESIGNATED BY THE CITY ENGINEER.
22. WHERE THE UNDERGROUND SUPPLY TEES OFF TO SERVICE ONLY A FIRE SPRINKLER SYSTEM, A SEPARATE DETAILED PLAN MUST BE SUBMITTED AND APPROVED BY THE FIRE MARSHAL PRIOR TO INSTALLATION.

SEWER GENERAL NOTES

1. ALL WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH THE "STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION," WASHINGTON STATE DEPARTMENT OF TRANSPORTATION, CURRENT EDITION, TOGETHER WITH THE LATEST EDITION OF THE CITY OF MOUNTLAKE TERRACE ENGINEERING STANDARDS.
2. AN APPROVED COPY OF THESE PLANS MUST BE ON SITE WHENEVER CONSTRUCTION IS IN PROGRESS.
3. IT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN STREET USE AND ANY OTHER RELATED PERMITS PRIOR TO ANY CONSTRUCTION ACTIVITY IN CITY RIGHT-OF-WAY.
4. PRIOR TO ANY CONSTRUCTION ACTIVITY, THE CITY OF MOUNTLAKE TERRACE ENGINEERING DEPARTMENT (425-776-1161) MUST BE CONTACTED FOR A PRECONSTRUCTION MEETING.
5. ALL LOCATIONS OF 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. THE CONTRACTOR SHALL CONTACT THE UTILITIES UNDERGROUND LOCATION SERVICE (1-800-424-5555) PRIOR TO CONSTRUCTION. THE OWNER OR HIS REPRESENTATIVE SHALL BE IMMEDIATELY CONTACTED IF A UTILITY CONFLICT EXISTS.
6. THE SANITARY SEWER SYSTEM SHALL BE STAKED BY A LICENSED LAND SURVEYOR AND CONSTRUCTED ACCORDING TO THE APPROVED PLANS WHICH ARE ON FILE IN THE CITY OF MOUNTLAKE TERRACE ENGINEERING DEPARTMENT. ANY DEVIATION FROM THE APPROVED PLANS WILL REQUIRE WRITTEN APPROVAL FROM THE PROPER AGENCY.
7. ALL NEW SANITARY SEWER LINES SHALL BE SEALED OFF AT THE EXISTING TRUNK CONNECTION POINT UNTIL ALL UPSTREAM CONSTRUCTION IS COMPLETED, CLEANED, TESTED, LAMPED, AND ACCEPTED BY THE CITY OF MOUNTLAKE TERRACE. ALL CONSTRUCTION DEBRIS AND WATER SHALL BE REMOVED FROM PIPE PRIOR TO OPENING SEAL AT THE END OF THE PROJECT AND PRIOR TO ACCEPTANCE. ALL SANITARY SEWER LINES SHALL BE INSPECTED BY TV VIEWING, RECORDED ON DVD OR REMOVABLE FLASH MEMORY, AND SUBMITTED TO THE CITY AS A PERMANENT RECORD.
8. MANHOLE AND LIDS:
 - A. ALL MANHOLES SHALL BE MOUNTLAKE TERRACE STANDARD PLAN NO. 305 TYPE, WITH ECCENTRIC CONE.
 - B. OUTSIDE DROP CONNECTIONS MUST BE APPROVED BY THE CITY AND CONSTRUCTED IN CONFORMANCE TO MOUNTLAKE TERRACE STANDARD PLAN NO. 308.
 - C. ALL MANHOLES SHALL HAVE A MINIMUM DROP OF 0.10 FEET BETWEEN INVERTS.
 - D. ALL MANHOLES NOT IN PAVED AREAS SHALL HAVE BOLT DOWN LIDS.
 - E. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO ADJUST ALL MANHOLE TOPS TO MATCH FINAL ASPHALT ELEVATIONS AND GROUND ELEVATIONS IN LANDSCAPED AREAS.
9. SEWER PIPE, BEDDING, AND TRENCH COMPACTION:
 - A. ALL SEWER PIPE SHALL BE ONE OF THE FOLLOWING:
 1. PVC, CONFORMING WITH ASTM D-3034, SDR 35.
 2. DUCTILE IRON, CLASS 52, CONFORMING TO ANSI/AWWA C151.
 3. PIPE MAY BE ANY OF THE ABOVE PROVIDED:
 - A) ADJOINING PIPE LENGTHS MUST BE OF THE SAME MATERIALS AND BE PROVIDED WITH RUBBER GASKET JOINTS.
 - B) WHERE A PIPE MATERIAL IS SPECIFICALLY SHOWN ON THE PLAN, THAT MATERIAL MUST BE USED. ANY CHANGE TO THE PIPE MATERIAL SHOWN ON THE PLAN MUST BE PRE-APPROVED.
 - B. PIPE BEDDING SHALL BE 5/8" MINUS CRUSHED SURFACING TOP COURSE (CSTC) OR AS DIRECTED BY THE ENGINEER OR AS DESIGNATED ON THE PLAN.
 - C. TRENCH BACKFILL SHALL BE COMPACTED TO MINIMUM 95% DRY OPTIMUM DENSITY PER ASTM D1777, OR LATEST REVISION, (MODIFIED PROCTOR) PRIOR TO TESTING SEWER LINES FOR ACCEPTANCE.
 10. SIDE SEWER LATERALS:
 - A. SIDE SEWERS SHALL BE 6" MINIMUM DIAMETER WITH 2.0% MINIMUM SLOPE.
 - B. SIDE SEWERS SHALL BE TESTED FOR LEAKAGE AT THE SAME TIME THE MAIN LINE SEWER IS TESTED. IF NOT TESTED TOGETHER, PROVIDE TEST TEES AT SEWER CONNECTIONS.
 - C. BUILDINGS WITH GREATER THAN 10 UNITS SHALL BE SERVICED BY ONE OF THE FOLLOWING METHODS:
 1. SINGLE 8" DIAMETER SERVICE WITH CLEANOUT CONNECTED TO TRUNK INTO MANHOLES ONLY.
 2. ALTERNATE CONNECTION METHODS IN COMPLIANCE WITH "CRITERIA FOR SEWAGE DESIGN", WASHINGTON STATE DEPARTMENT OF ECOLOGY.
 - D. ALL LATERAL CONNECTIONS TO SEWER MAINS SHALL BE MADE WITH A TEE. WHERE NO TEE IS AVAILABLE, USE AN APPROVED SADDLE FOR SEWER CONNECTION.
 - E. 6" CLEANOUTS MUST BE PROVIDED AT THE RIGHT-OF-WAY LINE FOR LATERALS EXTENDING FROM CITY OWNED MAINS. ALL CLEANOUTS MUST BE BROUGHT TO THE SURFACE IN ACCORDANCE WITH STANDARD PLAN #303.
 11. CONSTRUCTION OF DEWATERING SYSTEMS SHALL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS SECTION 7-09.3(7)a.
 12. WHENEVER SEWERS MUST CROSS UNDER WATER MAIN THE SEWER SHALL BE LAID AS SPECIFIED IN "CRITERIA FOR SEWAGE DESIGN", WASHINGTON STATE DEPARTMENT OF ECOLOGY.
 13. BUILDINGS SHALL NOT BE PERMITTED WITHIN 10 FEET, OR CARPORTS WITHIN 5 FEET, OF THE SPRING LINE OF ANY SANITARY SEWER MAIN. SIDE SEWERS 6" DIAMETER OR LESS MAY BE LOCATED WITHIN 30" OF A STRUCTURE PROVIDED THAT THE SOIL SUPPORT PRISM IS NOT DISTURBED FOR THE ADJACENT FOUNDATION.
 14. PRIOR TO OCCUPANCY, THE DEVELOPER SHALL GRANT NECESSARY SANITARY SEWER EASEMENTS TO THE CITY OF MOUNTLAKE TERRACE. THE WIDTH SHALL EQUAL TWICE THE NOMINAL DEPTH TO THE INVERT, BUT SHALL NOT BE LESS THAN 10'.
 15. AN AS-BUILT SANITARY SEWER DRAWING SHALL BE SUBMITTED FOR ALL DEVELOPMENTS, SHORT PLATS AND SUBDIVISIONS.
 16. ALL SEWERS SHALL BE DESIGNED AND CONSTRUCTED TO GIVE MEAN VELOCITIES, WHEN FLOWING FULL, OF NOT LESS THAN 2 FEET PER SECOND.
 17. SAND COLLARS OR OTHER CITY APPROVED COUPLINGS ARE REQUIRED ON ALL PVC PIPE CONNECTIONS TO CONCRETE MANHOLES.



MOUNTLAKE TERRACE CITY HALL

23204 58TH AVE. W.
MOUNTLAKE TERRACE, WA 98043



BID SET

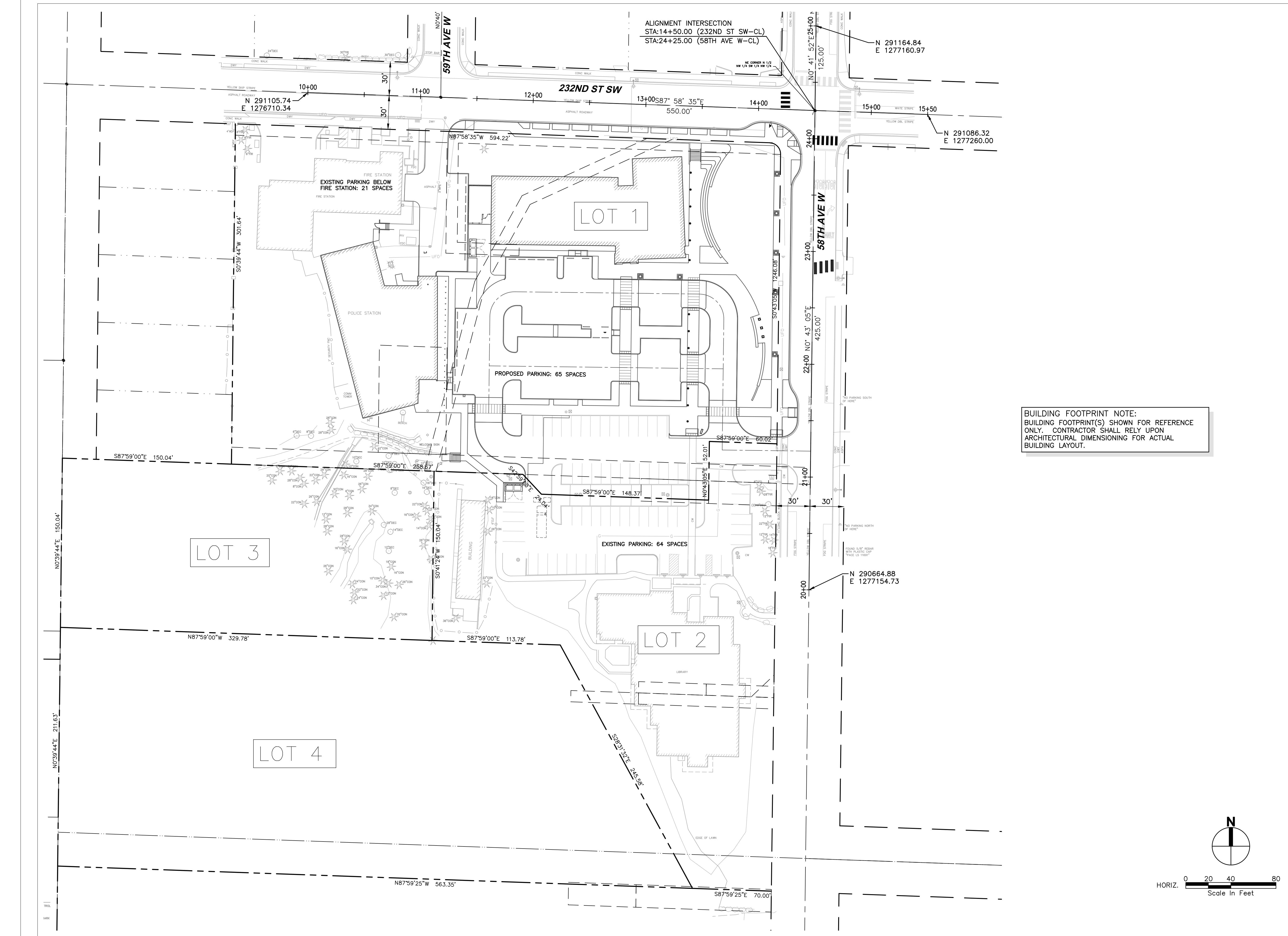
ISSUE DATE: 10/16/19

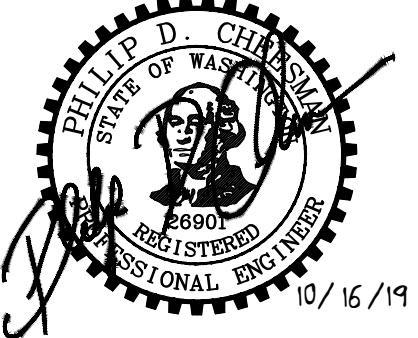
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GENERAL HORIZONTAL CON- TROL PLAN

CALE:
DRAWN:
CHECKED:
PROJECT NO: 18420

HEET:





MOUNTLAKE TERRACE CITY HALL

23204 58TH AVE. W.
MOUNTLAKE TERRACE,



BID SET

ISSUE DATE: 10/16/19

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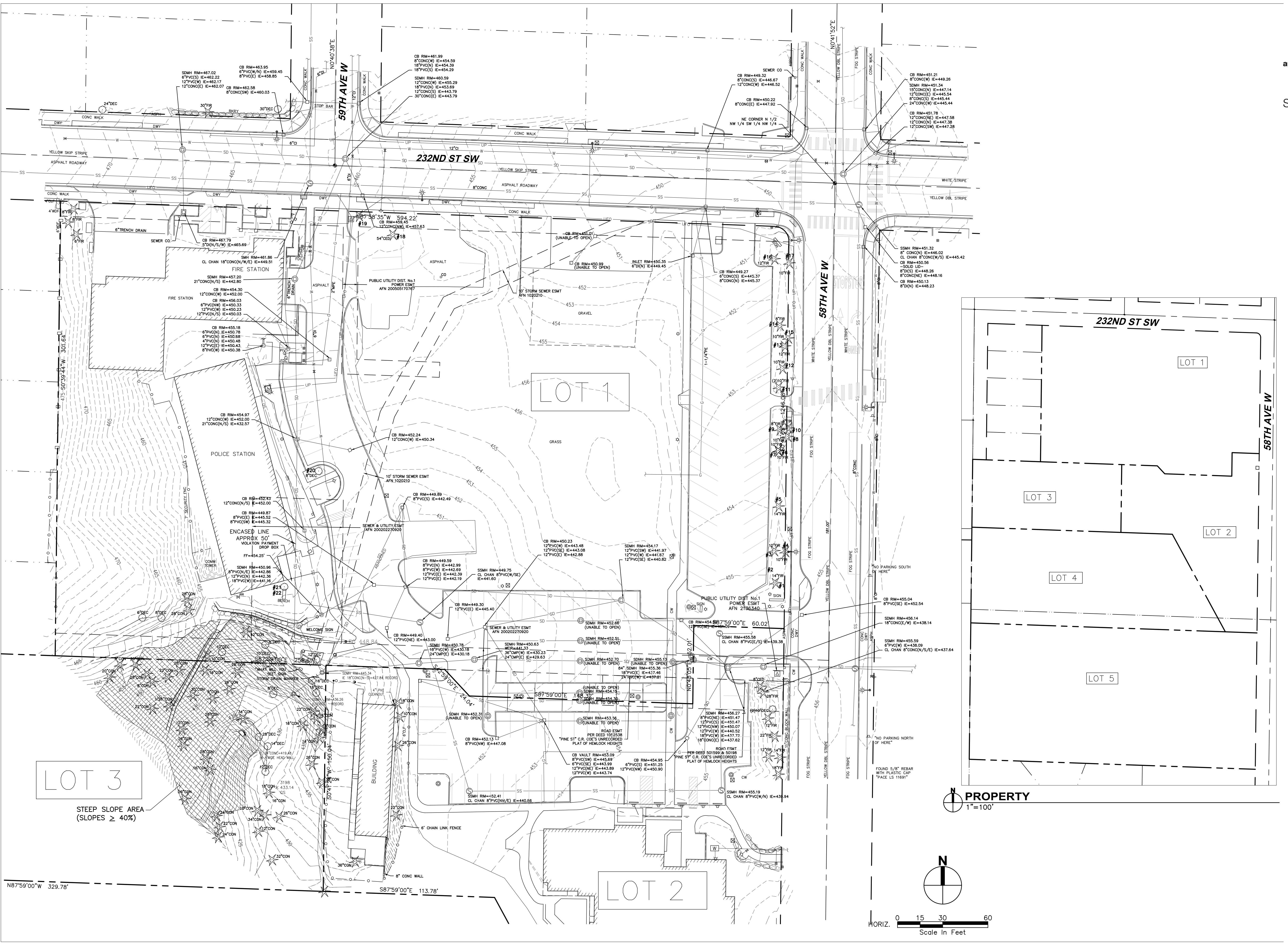
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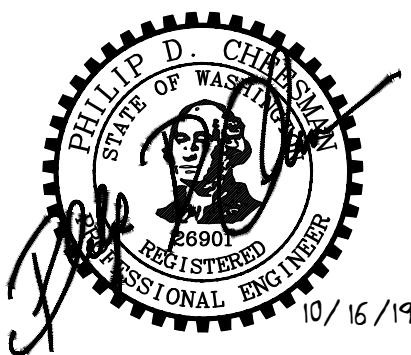
EXISTING CONDITIONS SURVEY

CALE:
RAWN:
CHECKED:
PROJECT NO: 18420

HEET:

C1.5





10/16/19

MOUNTLAKE TERRACE CITY HALL

23204 58TH AVE. W.
MOUNTLAKE TERRACE, WA 98043



BID SET

ISSUE DATE: 10/16/19

REVISION	DATE	DESCRIPTION

CONTENTS:

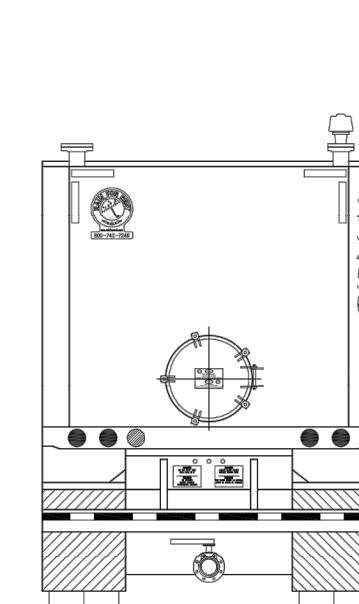
TESC AND DEMOLITION

DETAILS

SCALE:
DRAWN:
CHECKED:
PROJECT NO.: 18420

SHEET:

C2.1



DISCHARGE LIMITS

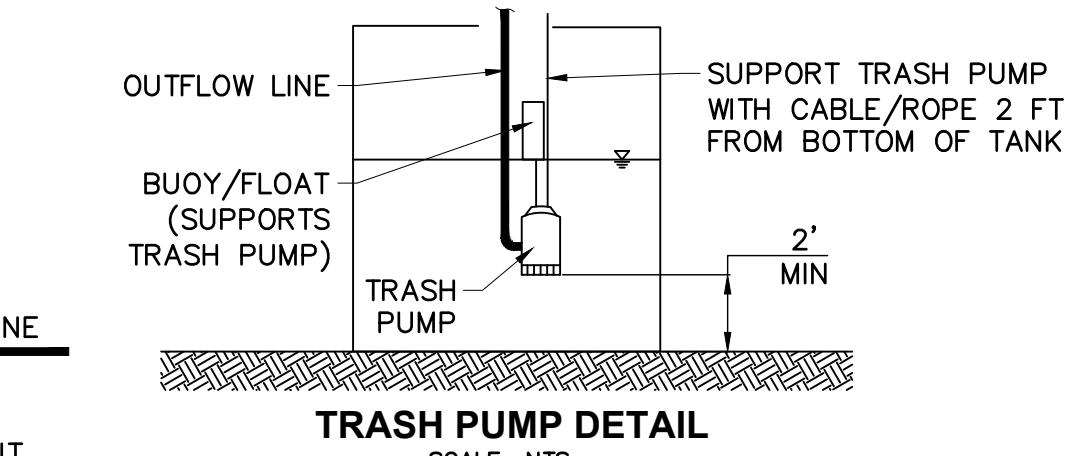
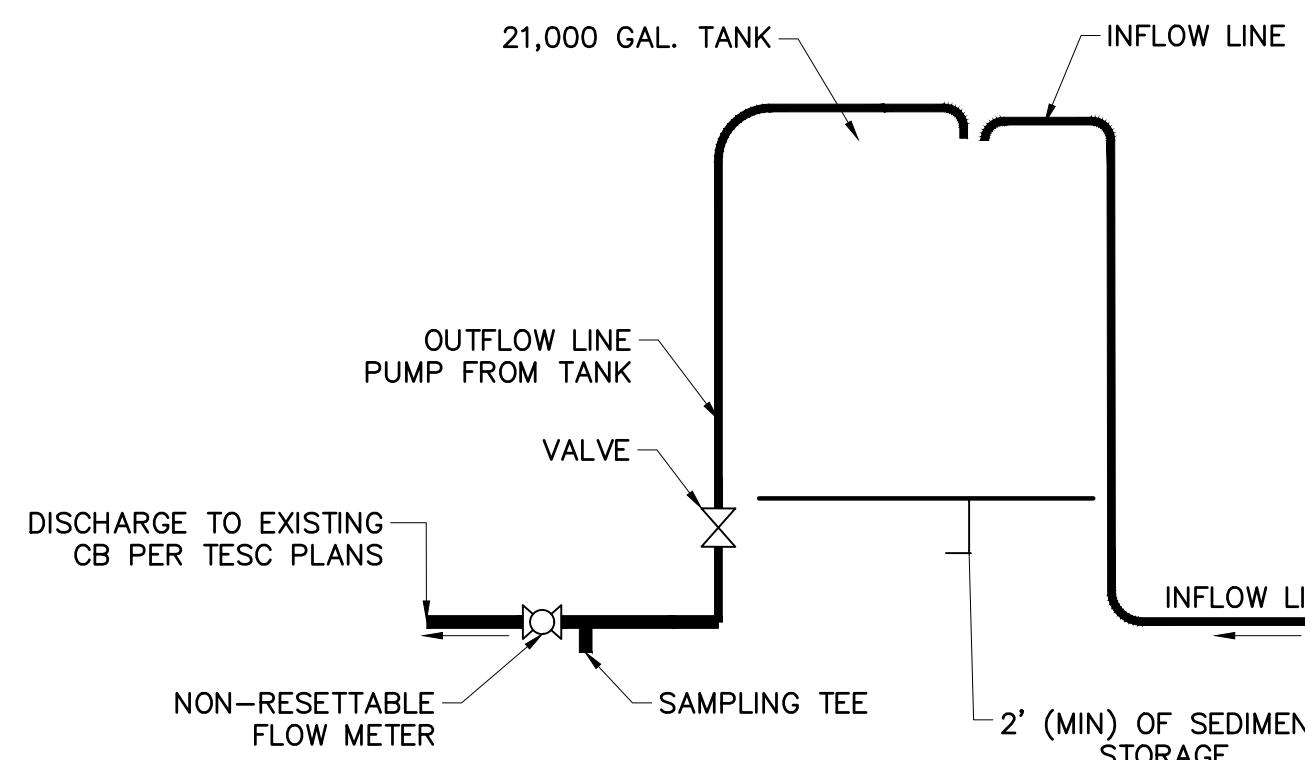
SETTLEMENT TANK VOLUME REQUIRED:

(2) 21,000 GAL

*THE MAXIMUM DISCHARGE RATE IS 65 GPM AND THE MAXIMUM DAILY DISCHARGE VOLUME SHALL BE LIMITED TO XX,XXX GALLONS PER DAY DURING THE DRY SEASON (MAY 1 - SEPT. 31) AND XX,XXX GAL/DAY DURING THE WET SEASON (OCT 1 - APR. 30).

SITE INSPECTIONS SHALL BE CONDUCTED BY A CERTIFIED EROSION AND SEDIMENT CONTROL LEAD (CESCL) WHO SHALL BE PRESENT ON-SITE OR ON-CALL AT ALL TIMES.

PROJECT CESCL: _____
PHONE: _____

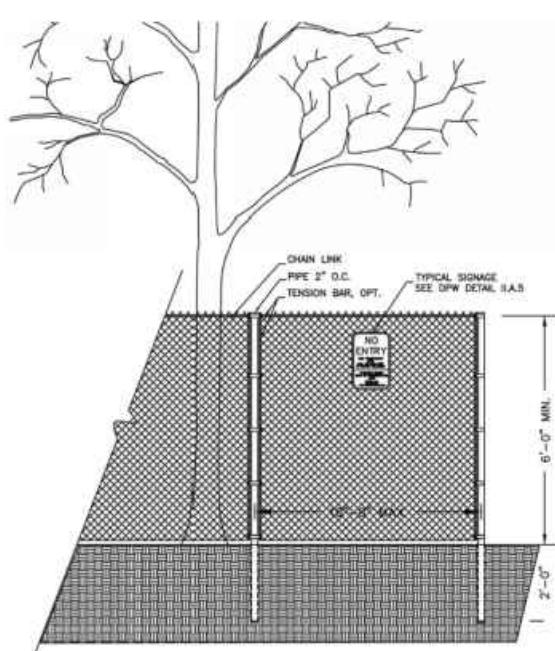


TRASH PUMP DETAIL

SCALE: NTS

TEMPORARY SETTLEMENT TANK DIAGRAM

NTS

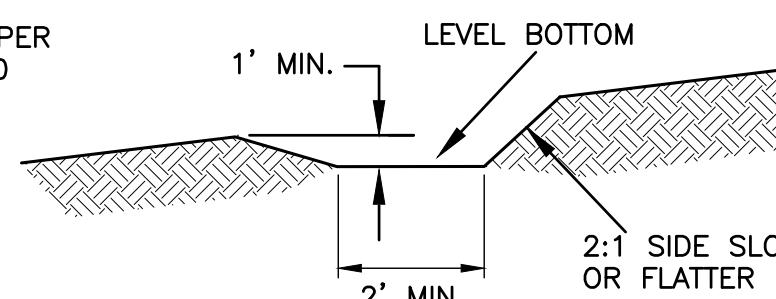


Protection Fencing Recommendations

- FENCE SHOULD BE COMPOSED OF CHAIN LINK AND EXTEND 6 FEET ABOVE GRADE.
- PIPES OR POSTS SHOULD BE 2-INCHES DIAMETER AND EXTEND 2 FEET BELOW GRADE.
- SIGNS SHOULD BE PLACED ON FENCING TO INFORM WORKERS AND PEOPLE NEARBY OF RESTRICTIONS ON ENTRY AND POTENTIAL CONSEQUENCES.
- FENCE SHOULD BE OUTSIDE OF DRIPLINE OF TREE AND AS FAR FROM TREE AS POSSIBLE.
- FENCE MAY NOT BE RELOCATED WITHOUT AUTHORIZATION BY CITY CONSTRUCTION INSPECTOR.
- ASPHALT WITHIN TREE PROTECTION AREA SHALL BE REMOVED BY HAND.

SIGN CONSTRUCTION AND MATERIAL MAY BE ALTERED IF APPROVED BY PROJECT MANAGER(S) AND CITY CONSTRUCTION INSPECTOR

STABILIZATION PER
DOE BMP C200



TREE PROTECTION DETAIL

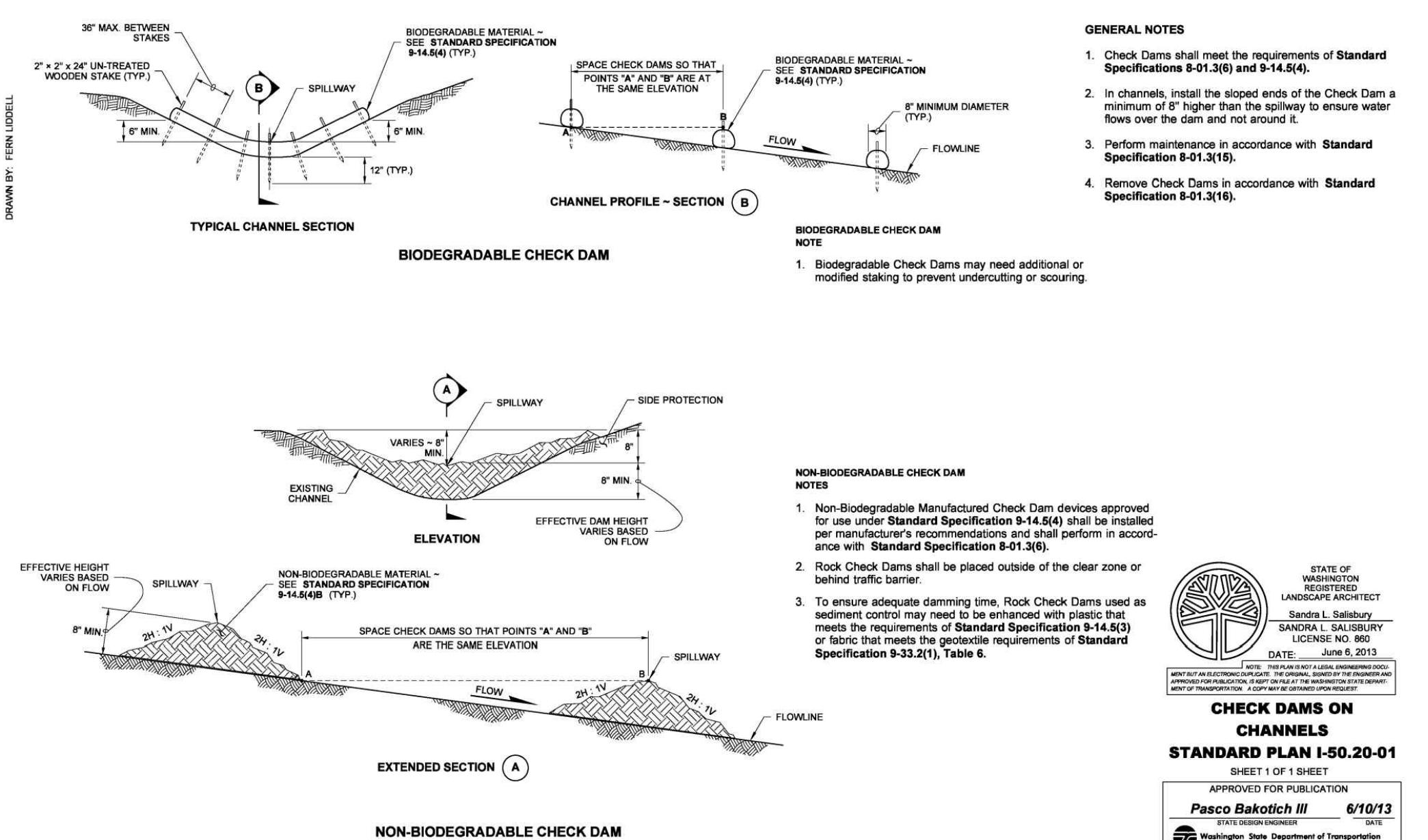
NTS

INTERCEPTOR SWALE

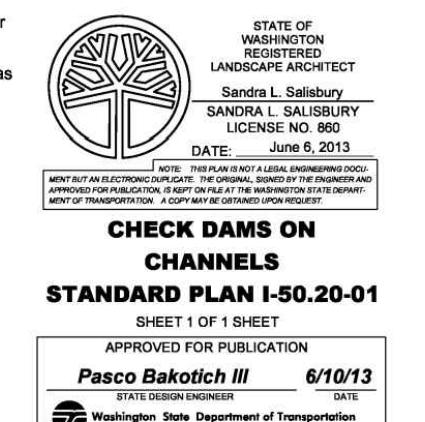
NTS

NON-BIODEGRADABLE CHECK DAM

NTS



- GENERAL NOTES**
- Check Dams shall meet the requirements of Standard Specification 9-01-316 and 9-14-546.
 - In channels, install the steeper ends of the Check Dam a minimum of 8' higher than the spillway to ensure water flows over the dam and not around it.
 - Perform maintenance in accordance with Standard Specification 9-01-3(15).
 - Remove Check Dams in accordance with Standard Specification 9-01-3(16).
- BIODEGRADABLE CHECK DAM**
- NON-BIODEGRADABLE CHECK DAM**
- NON-BIODEGRADABLE CHECK DAM**
- NOTES**
- Non-Bio-degradable Manufactured Check Dam devices approved for use under Standard Specification 9-14-541 shall be installed per manufacturer's recommendations. Devices shall perform in accordance with Standard Specification 9-01-3(6).
 - Rock Check Dams shall be placed outside of the clear zone or behind traffic barrier.
 - To ensure adequate damming time, Rock Check Dams used as sediment control may need to be placed upstream of the area that meets the requirements of Standard Specification 9-14-543 or fabric that meets the geotextile requirements of Standard Specification 9-33.2(1), Table 6.



STATE OF
WASHINGTON
LANDSCAPE ARCHITECT
SARAH L. SALISBURY
LICENSE NO. 860
DATE
JUNE 6, 2013

APPROVED FOR PUBLICATION
Pasco Bakofch III 6/10/13
Washington State Department of Transportation

21,000 GAL. TANK

INFLOW LINE

OUTFLOW LINE

PUMP FROM TANK

VALVE

DISCHARGE TO EXISTING
CB PER TESC PLANS

NON-RESETTABLE
FLOW METER

SAMPLING TEE

2' (MIN) OF SEDIMENT
STORAGE

2' MIN

TRASH PUMP

BUOY/FLOAT
(SUPPORTS
TRASH PUMP)

OUTFLOW LINE

SUPPORT TRASH PUMP
WITH CABLE/ROPE 2 FT
FROM BOTTOM OF TANK

2' MIN

GENERAL NOTES

1. Check Dams shall meet the requirements of Standard Specification 9-01-316 and 9-14-546.

2. In channels, install the steeper ends of the Check Dam a minimum of 8' higher than the spillway to ensure water flows over the dam and not around it.

3. Perform maintenance in accordance with Standard Specification 9-01-3(15).

4. Remove Check Dams in accordance with Standard Specification 9-01-3(16).

1. Biodegradable Check Dams may need additional or modified staking to prevent undercutting or scouring.

2. Rock Check Dams shall be placed outside of the clear zone or behind traffic barrier.

3. To ensure adequate damming time, Rock Check Dams used as sediment control may need to be placed upstream of the area that meets the requirements of Standard Specification 9-14-543 or fabric that meets the geotextile requirements of Standard Specification 9-33.2(1), Table 6.

NON-BIODEGRADABLE CHECK DAM

NOTE

1. Non-Bio-degradable Manufactured Check Dam devices approved for use under Standard Specification 9-14-541 shall be installed per manufacturer's recommendations. Devices shall perform in accordance with Standard Specification 9-01-3(6).

2. Rock Check Dams shall be placed outside of the clear zone or behind traffic barrier.

3. To ensure adequate damming time, Rock Check Dams used as sediment control may need to be placed upstream of the area that meets the requirements of Standard Specification 9-14-543 or fabric that meets the geotextile requirements of Standard Specification 9-33.2(1), Table 6.

4. Remove Check Dams in accordance with Standard Specification 9-01-3(16).

NON-BIODEGRADABLE CHECK DAM

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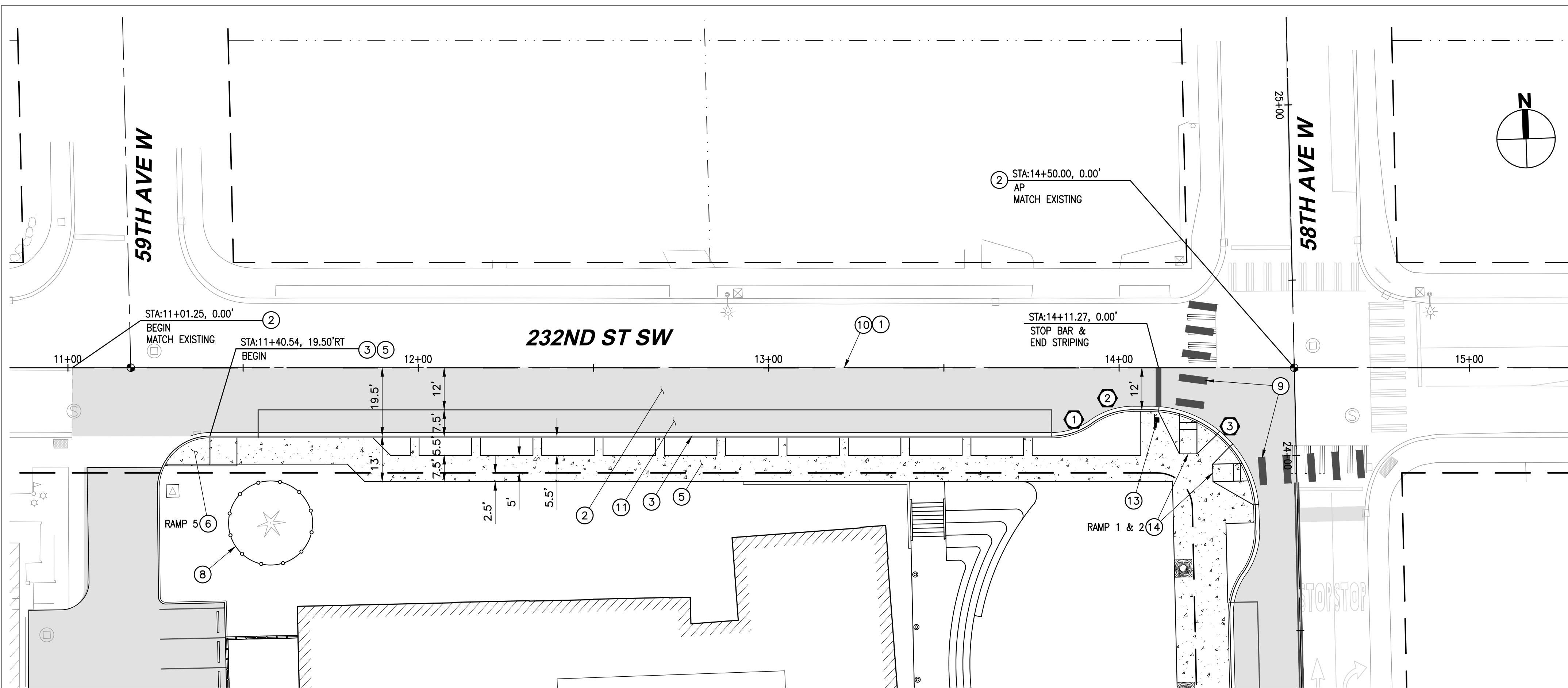
NON-BIODEGRADABLE CHECK DAM

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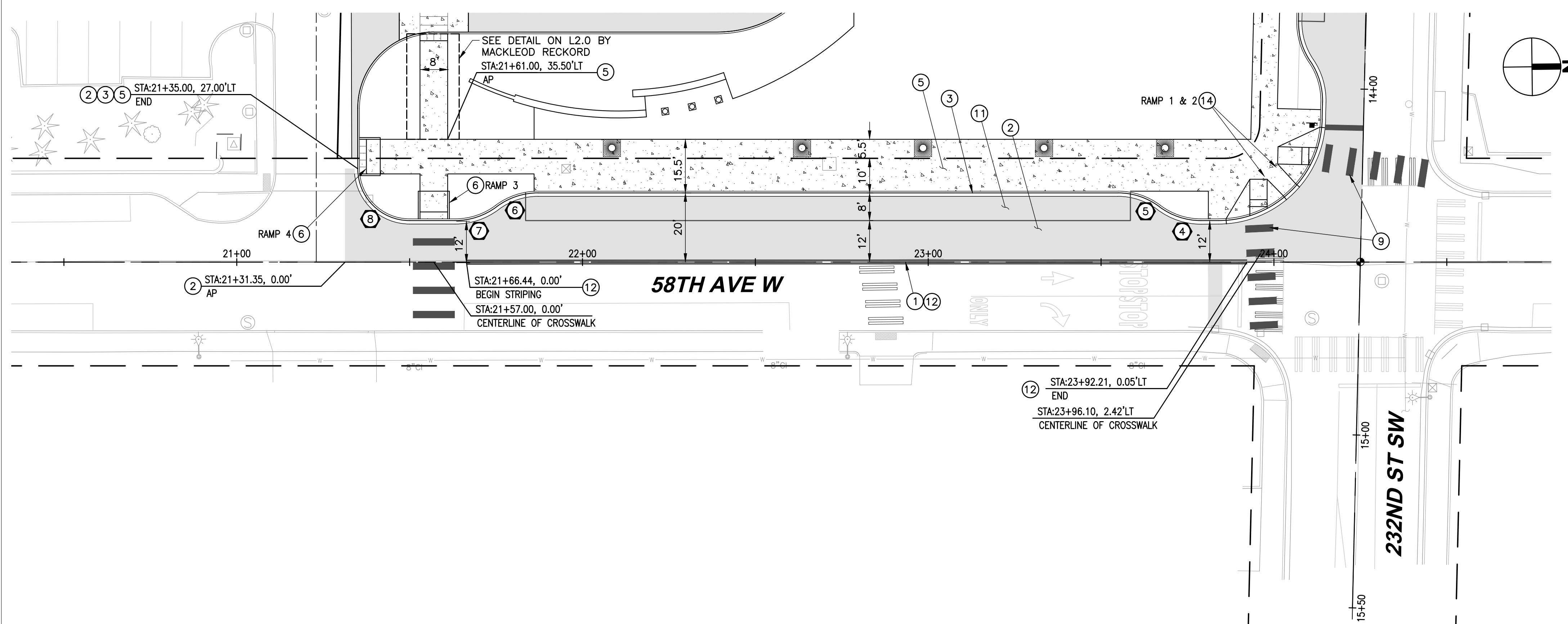
MOUNT LAKE TERRACE CITY HALL

23204 58TH AVE W.
MOUNT LAKE TERRACE, WA 98043



NOTES:

1. ALL DIMENSIONS, STATIONS AND OFFSETS ARE TO FACE OF CURB UNLESS LISTED OTHERWISE.



MOUNTLAKE TERRACE CITY HALL

23204 58TH AVE. W.
MOUNTLAKE TERRACE, WA 98043



BID SET

ISSUE DATE: 10/16/19

REVISION	DATE	DESCRIPTION

CONTENTS:

SITE DEVELOPMENT DETAILS

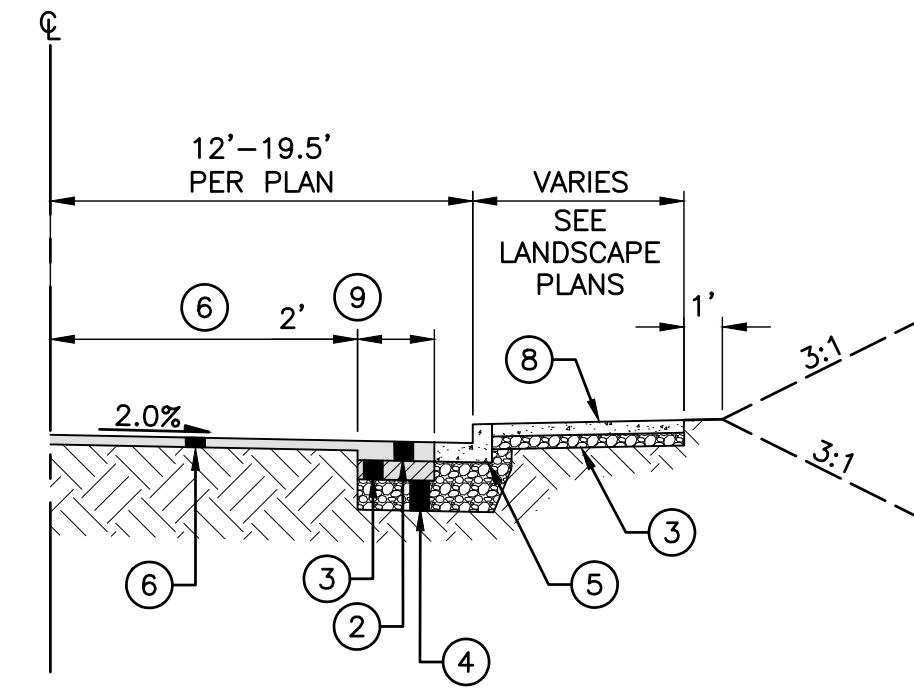
SCALE:
DRAWN:
CHECKED:
PROJECT NO: 18420

SHEET:

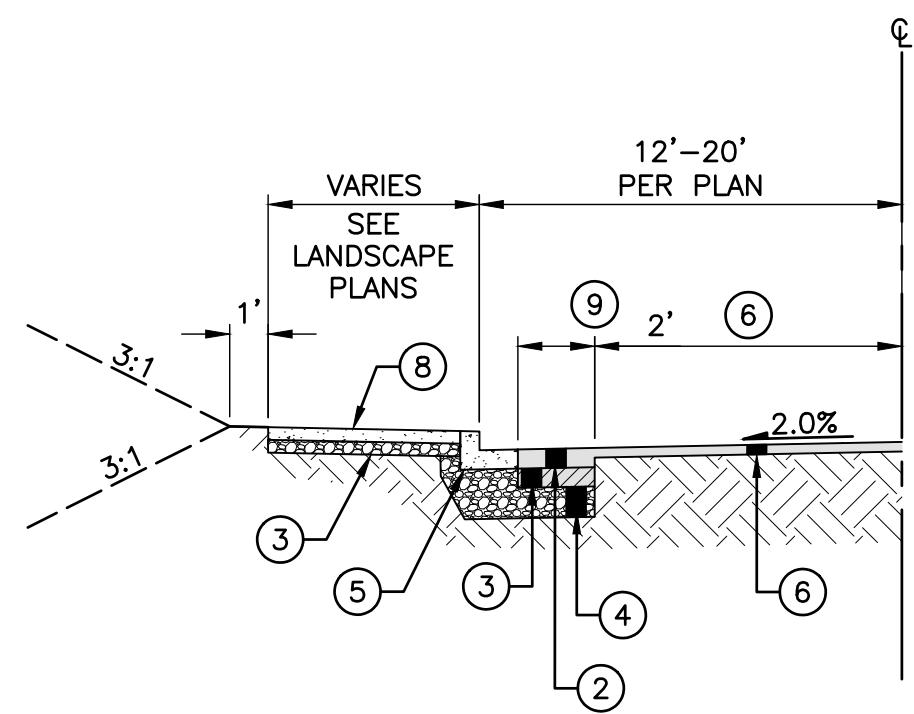
C3.1

TYPICAL ROADWAY SECTION NOTES

- ① NOT USED
- ② 4" HMA, CLASS $\frac{1}{2}$ " PG 64-22. (TWO LIFTS) PER CITY OF MLT STD DETAIL 111. TWO 2" LIFTS. FINAL LIFT TO BE DONE WITH 2" OVERLAY.
- ③ 4" CRUSHED SURFACING TOP COURSE. PER CITY OF MLT STD DETAIL 111.
- ④ 2" CRUSHED SURFACING TOP COURSE. 6" GRAVEL BASE. COMPACT TO 95% MAX DENSITY.
- ⑤ 6" CEMENT CONCRETE TRAFFIC CURB AND GUTTER PER WSDOT STD PLAN F-10.12-03. FLOWLINE ELEVATION PER PROFILES ON SHEETS C4.1, C4.2 AND CURB RETURN TABLES ON THIS SHEET.
- ⑥ 2" GRIND AND OVERLAY. 2" FINAL OVERLAY LIFT TO EXTEND FROM ROADWAY CENTERLINE TO FACE OF CURB GUTTER.
- ⑦ NOT USED
- ⑧ 4" CEMENT CONCRETE SIDEWALK PER CITY OF MLT STD DETAIL 100. SEE LANDSCAPE PLAN FOR SCORING DETAILS.
- ⑨ SAWCUT EXISTING PAVEMENT MINIMUM 24" FROM EDGE OF PROPOSED CUTTER.



TYPICAL ROADWAY SECTION - 232ND ST SW



TYPICAL ROADWAY SECTION - 58TH AVE W

CURB RETURN ①	
PC STA:13+80.69, 19.50'RT	FL: 449.52
1/2 Δ	FL: 449.60
PRC STA:13+92.34, 15.75'RT	FL: 449.68
$\Delta = 35^\circ 39' 33''$	
R = 20.00'	
L = 12.45'	

CURB RETURN ②	
PRC STA:13+92.34, 15.75'RT	FL: 449.68
1/2 Δ	FL: 449.77
PT STA:14+04.00, 12.00'RT	FL: 449.85
$\Delta = 35^\circ 39' 33''$	
R = 20.00'	
L = 12.45'	

CURB RETURN ③	
PC STA:24+13.94, 41.32'LT	FL: 449.92
1/4 Δ	FL: 450.08
1/2 Δ	FL: 450.23
3/4 Δ	FL: 450.39
PT STA:23+83.95, 12.00'LT	FL: 450.55
$\Delta = 88^\circ 41' 40''$	
R = 30.00'	
L = 46.44'	

CURB RETURN ④	
PC STA:23+78.86, 12.00'LT	FL: 450.62
1/2 Δ	FL: 450.72
PRC STA:23+66.86, 16.00'LT	FL: 450.84
$\Delta = 36^\circ 52' 12''$	
R = 20.00'	
L = 12.87'	

CURB RETURN ⑤	
PRC STA:23+66.86, 16.00'LT	FL: 450.84
1/2 Δ	FL: 450.98
PT STA:23+54.86, 20.00'LT	FL: 451.14
$\Delta = 36^\circ 52' 12''$	
R = 20.00'	
L = 12.87'	

CURB RETURN ⑥	
PC STA:21+87.16, 20.00'LT	FL: 454.41
1/2 Δ	FL: 454.53
PRC STA:21+75.16, 16.00'LT	FL: 454.68
$\Delta = 36^\circ 52' 12''$	
R = 20.00'	
L = 12.87'	

CURB RETURN ⑦	
PRC STA:21+75.16, 16.00'LT	FL: 454.68
1/2 Δ	FL: 454.82
PT STA:21+63.16, 12.00'LT	FL: 454.94
$\Delta = 36^\circ 52' 12''$	
R = 20.00'	
L = 12.87'	

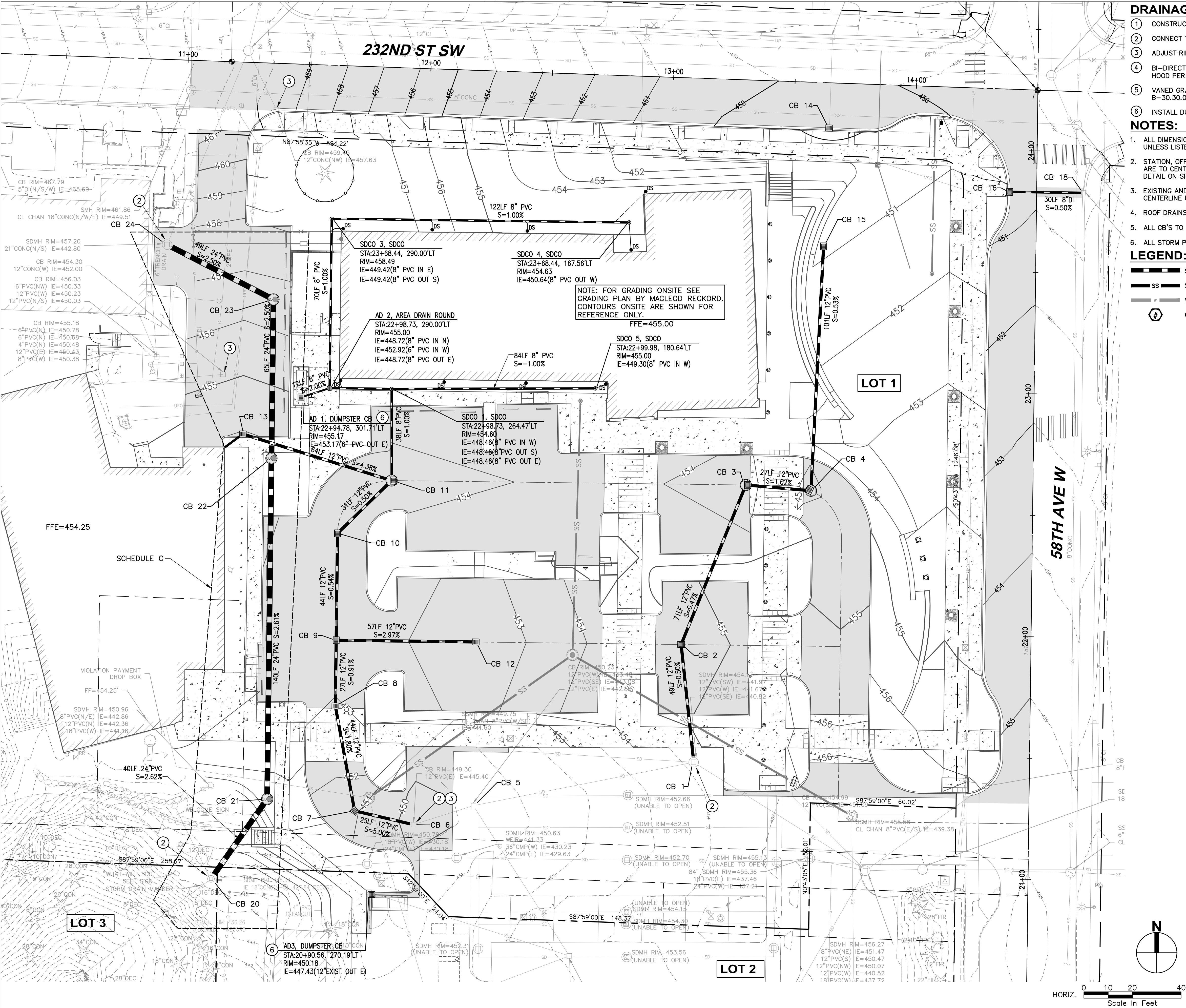
CURB RETURN ⑧	
PC STA:21+50.00, 12.00'LT	FL: 455.14
1/4 Δ	FL: 455.16
1/2 Δ	FL: 455.19
3/4 Δ	FL: 455.97
PT STA:21+35.00, 27.00'LT	FL: 455.24
$\Delta = 90^\circ 00' 00''$	
R = 15.00'	
L = 23.56'	

EARTHWORK VOLUMES
FILL: 1,900 CY
CUT: 5,700 CY
NET: 3,800 CY CUT
NOTE: EARTHWORK QUANTITIES ARE TO THE TOP OF THE ASPHALT AND ARE FOR PERMITTING PURPOSES ONLY. CONTRACTOR SHALL PERFORM THEIR OWN TAKE-OFF'S FOR PURPOSES OF BIDDING.

SCALE:
DRAWN:
CHECKED:
PROJECT NO: 18420

SHEET:

C3.1



MOUNTLAKE TERRACE CITY HALL
23204 58TH AVE. W.
MOUNTLAKE TERRACE, WA 98043



BID SET

ISSUE DATE: 10/16/19

REVISION	DATE	DESCRIPTION

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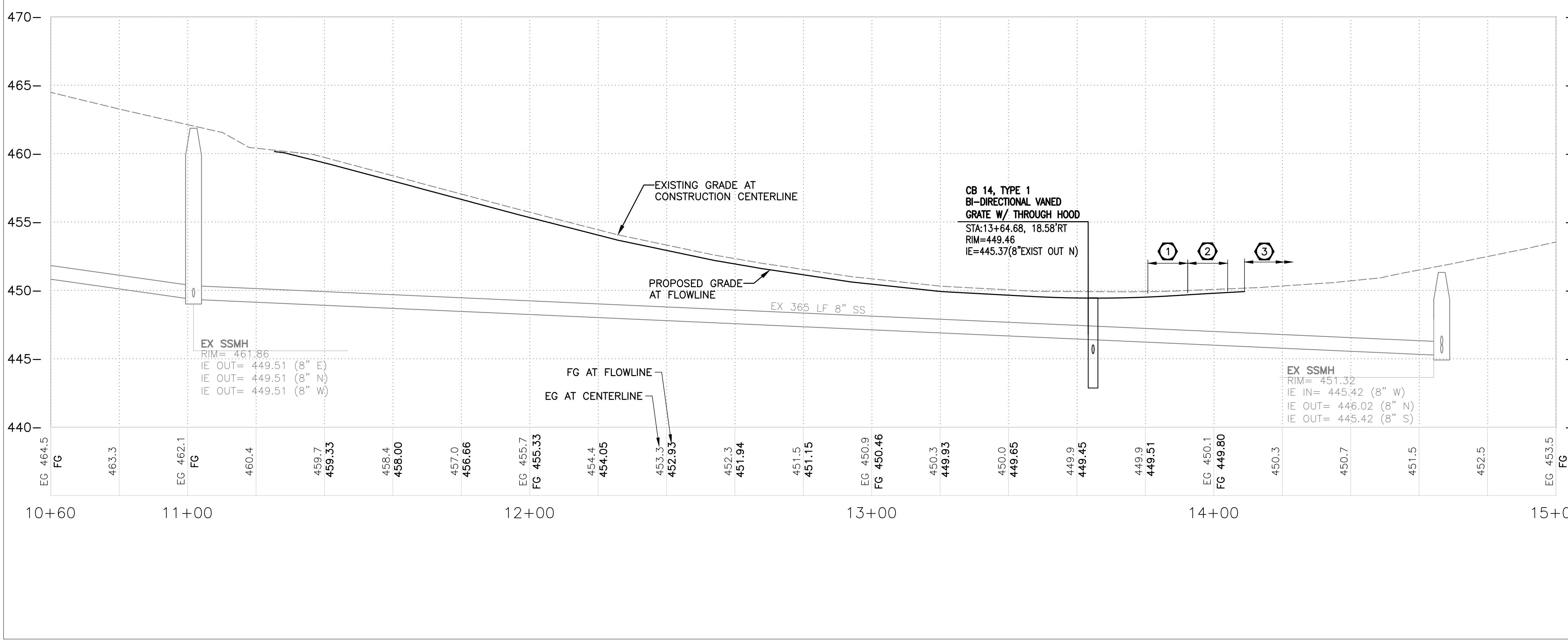
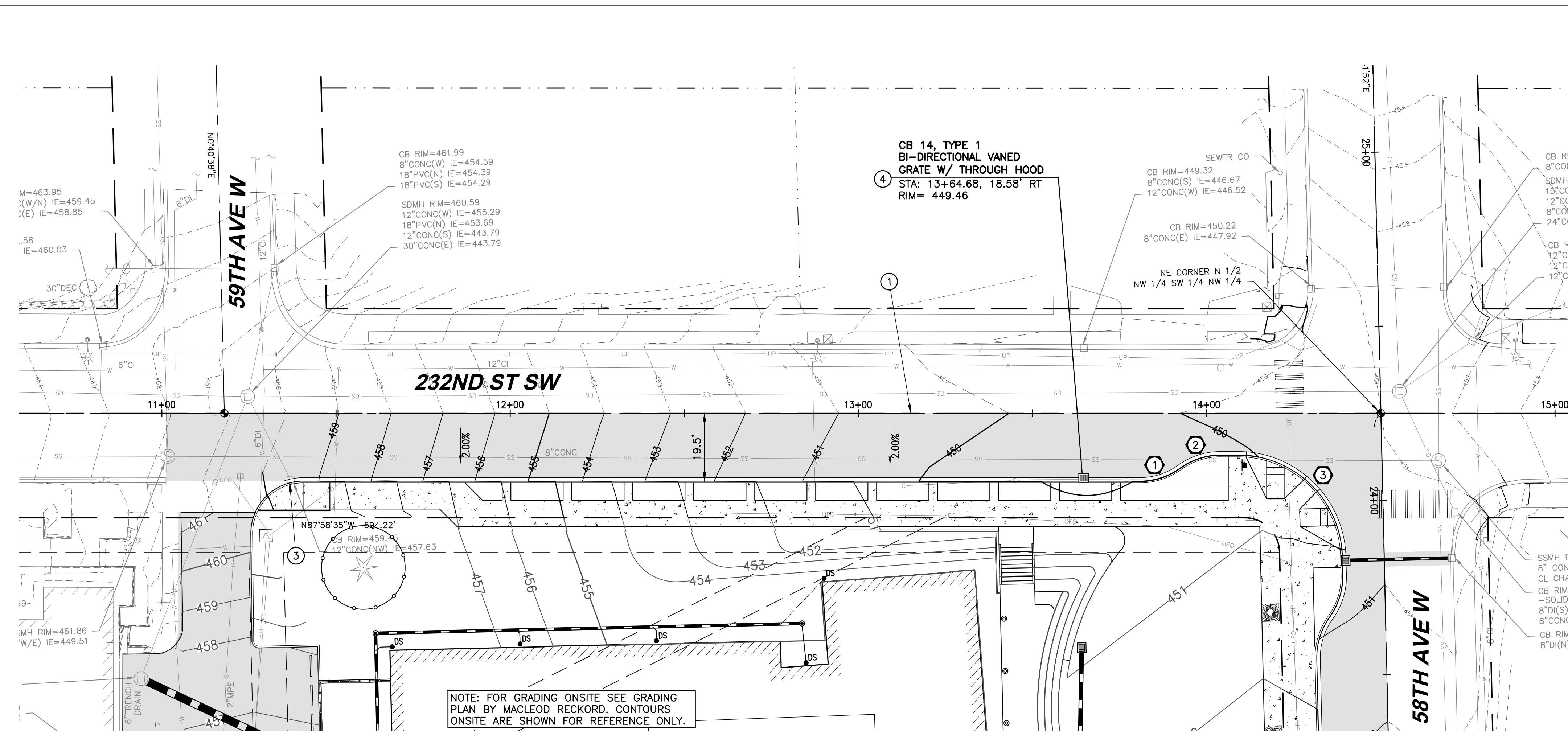
GRADING AND STORM DRAINAGE SITE PLAN		
SCALE:		
DRAWN:		
CHECKED:		
PROJECT NO:	18420	
SHEET:		

C4.0

MOUNTLAKE TERRACE CITY HALL

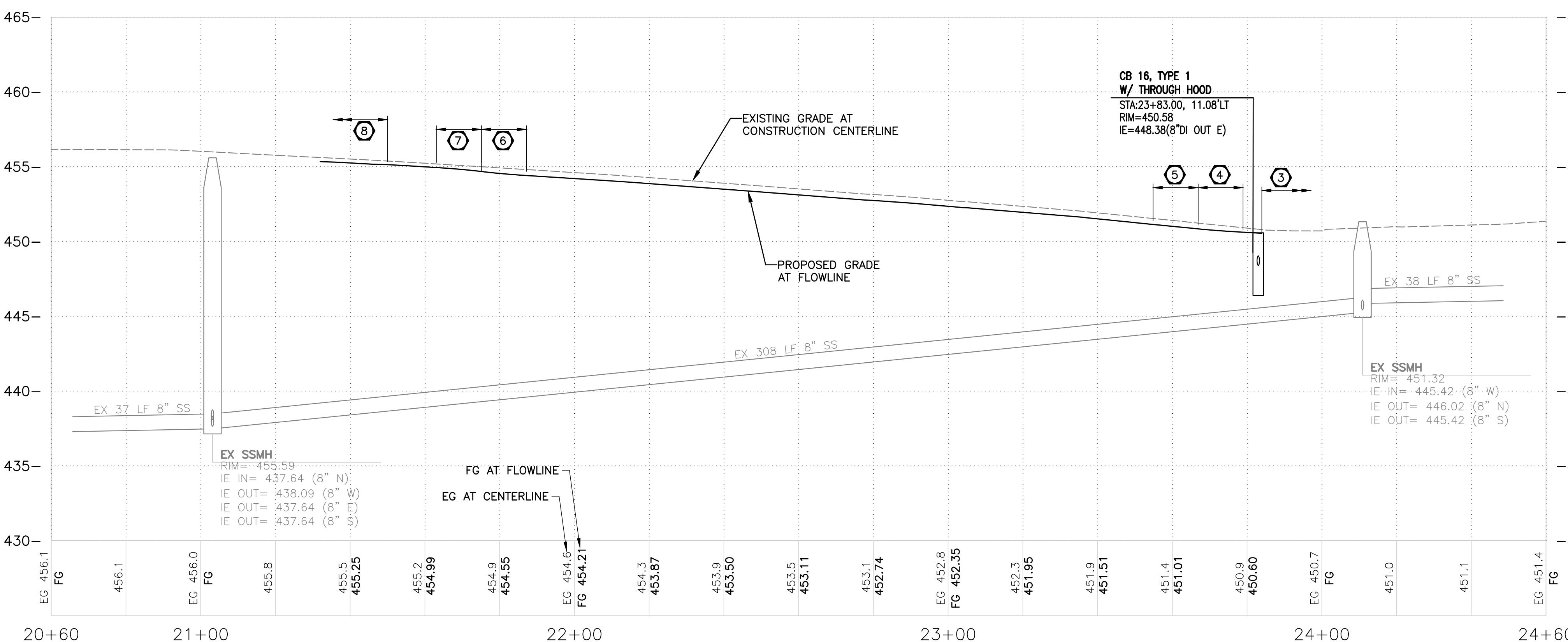
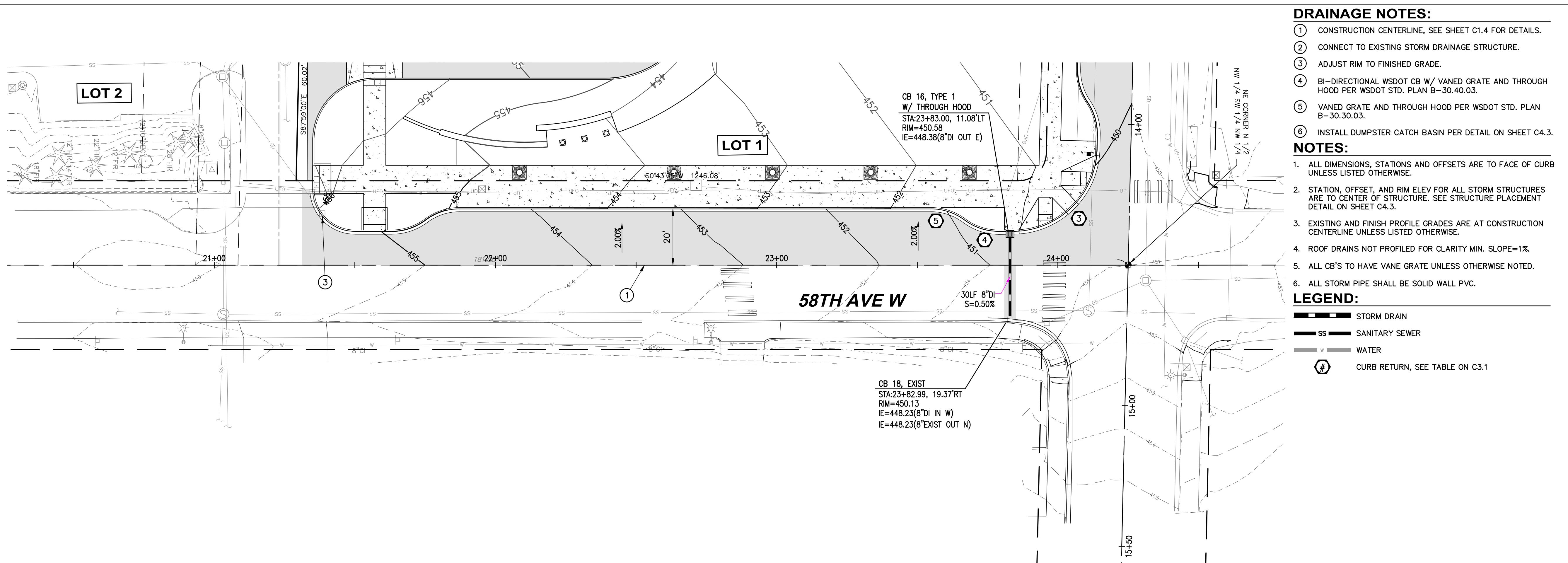
23204 58TH AVE W.

MOUNTLAKE TERRACE, WA 98043



MOUNTLAKE TERRACE CITY HALL

23204 58TH AVE. W.
MOUNTLAKE TERRACE, WA 98043



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ISSUE DATE: 10/16/19

REVISION	DATE	DESCRIPTION

GRADING AND STORM DRAINAGE

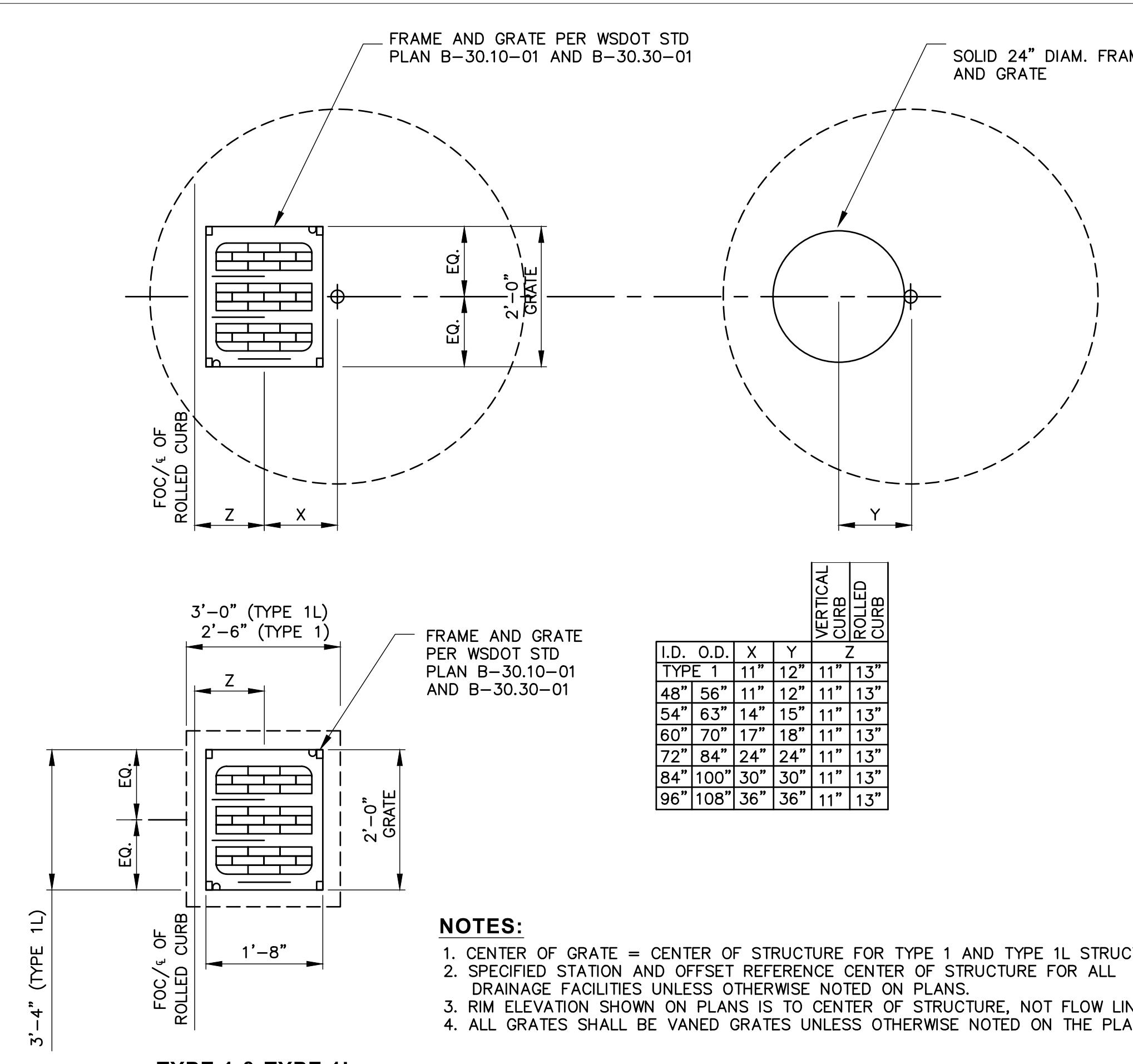
58TH AVE W PLAN AND PROFILE

SCALE:	
DRAWN:	
CHECKED:	
PROJECT NO.: 18420	

SHEET: C4.2

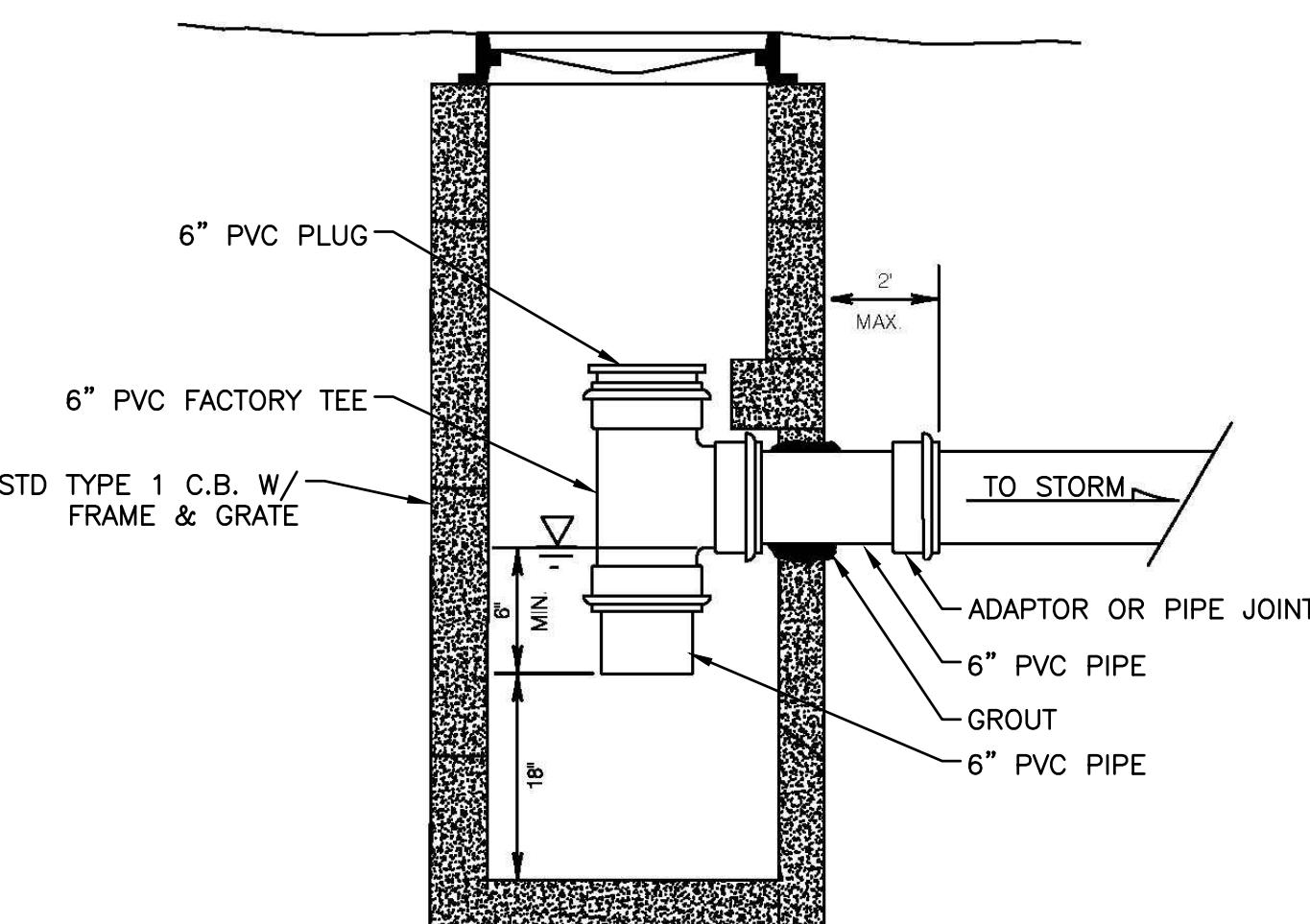
MOUNTLAKE TERRACE CITY HALL

23204 58TH AVE. W.
MOUNTLAKE TERRACE, WA 98043

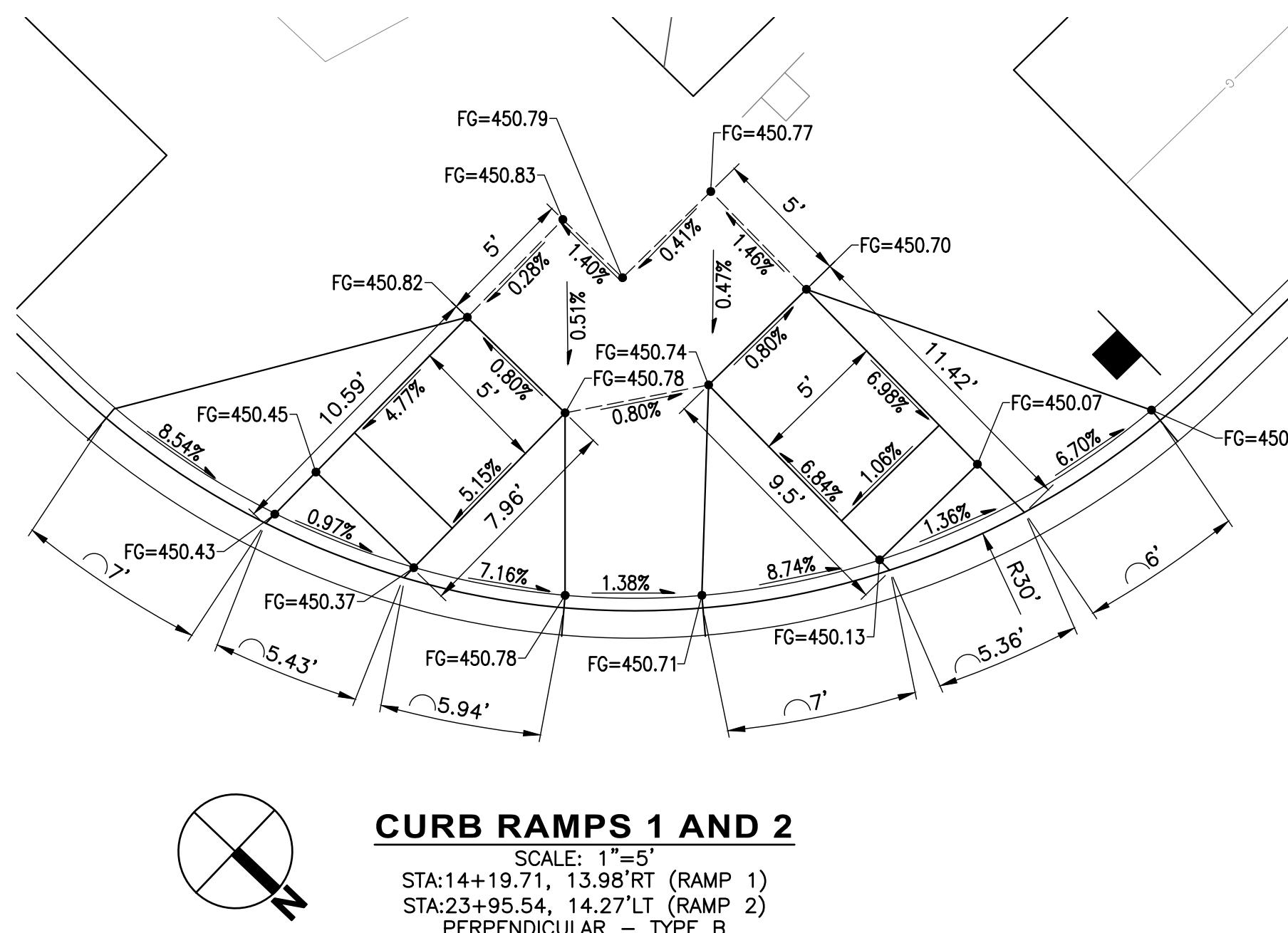


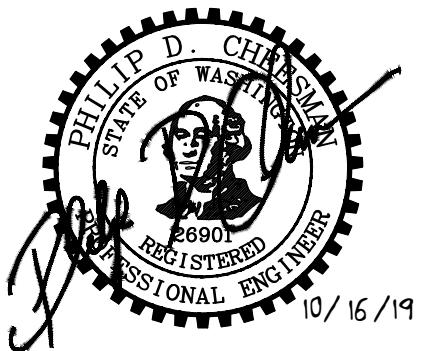
STRUCTURE PLACEMENT DETAIL

SCALE: NTS



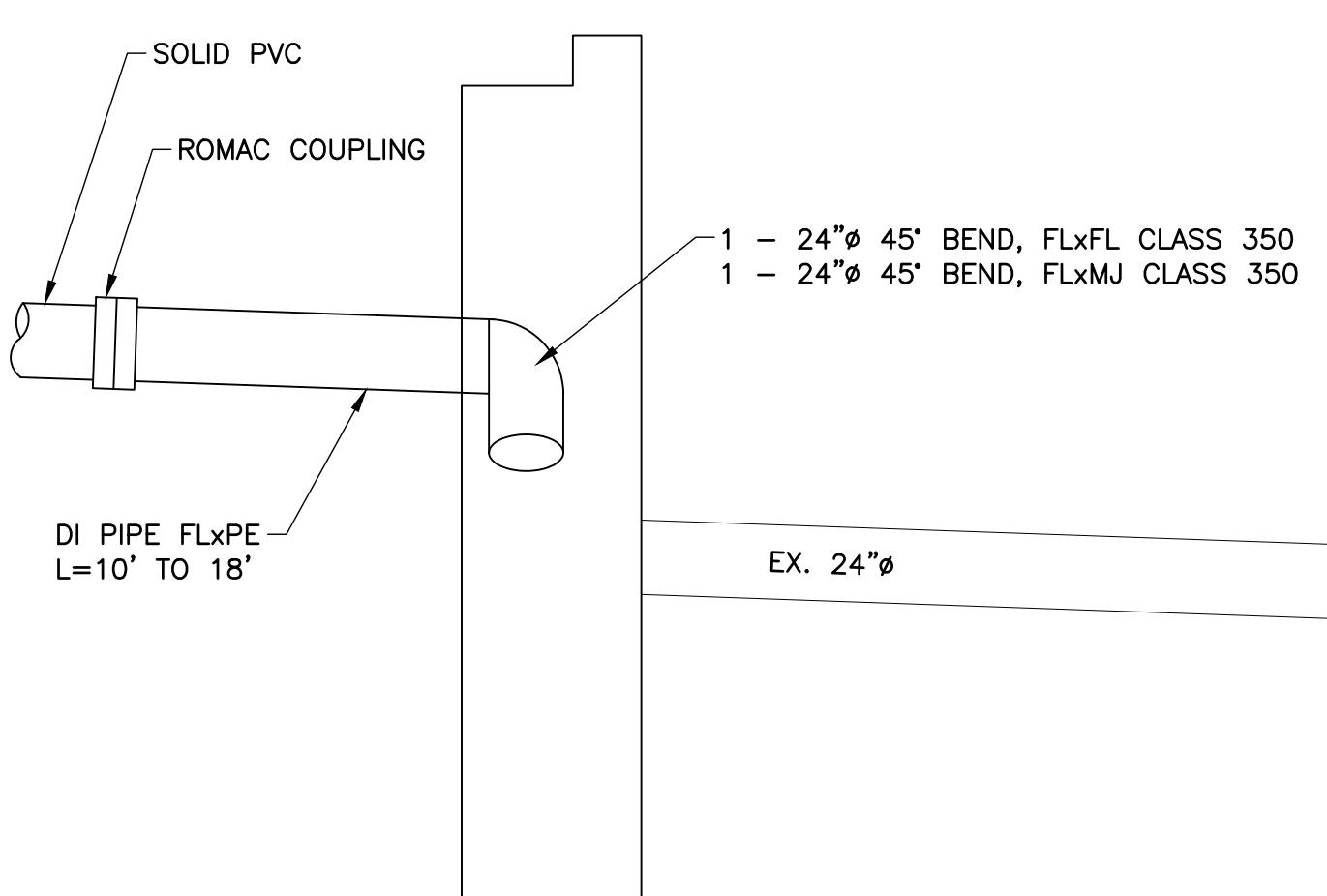
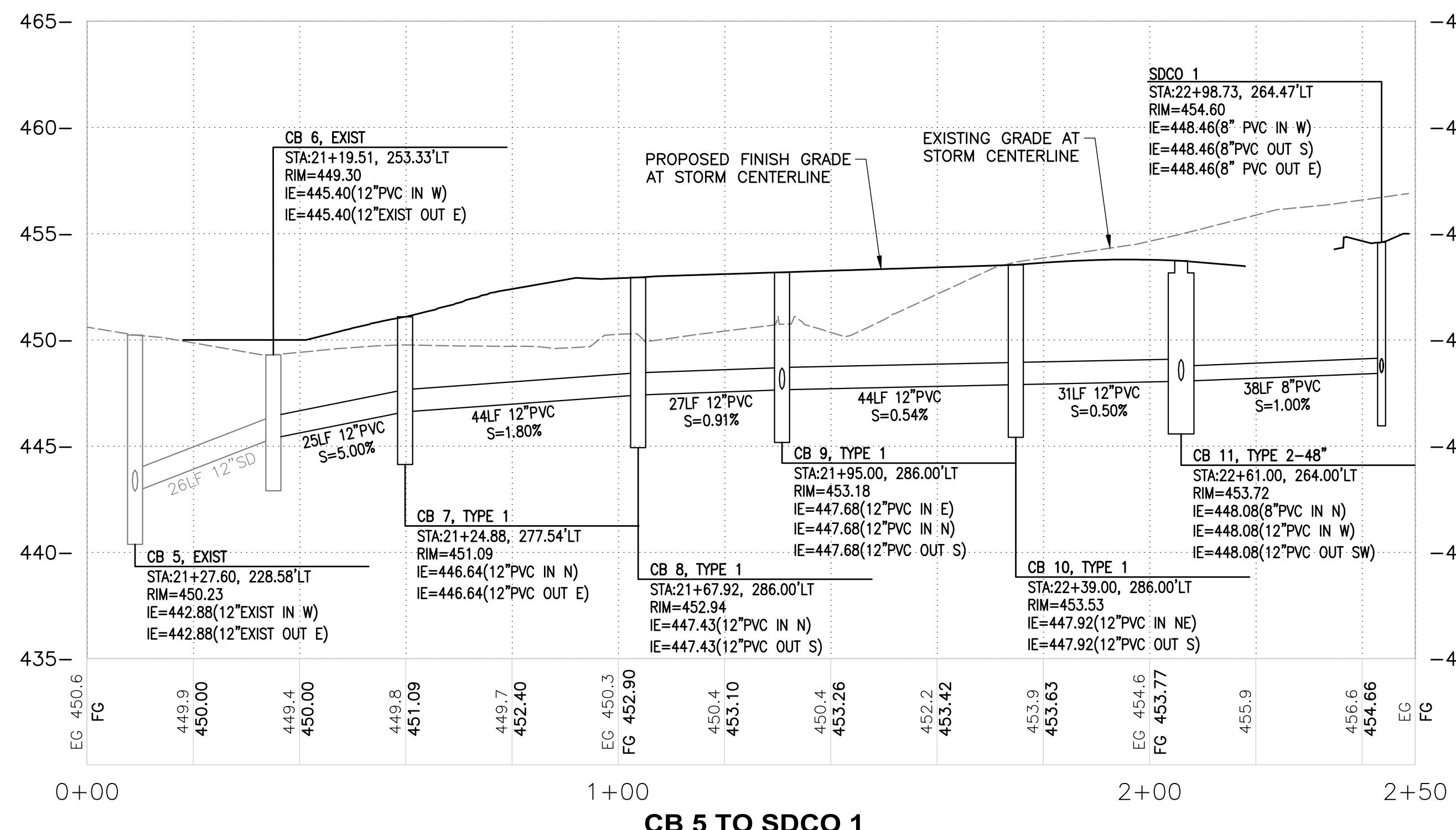
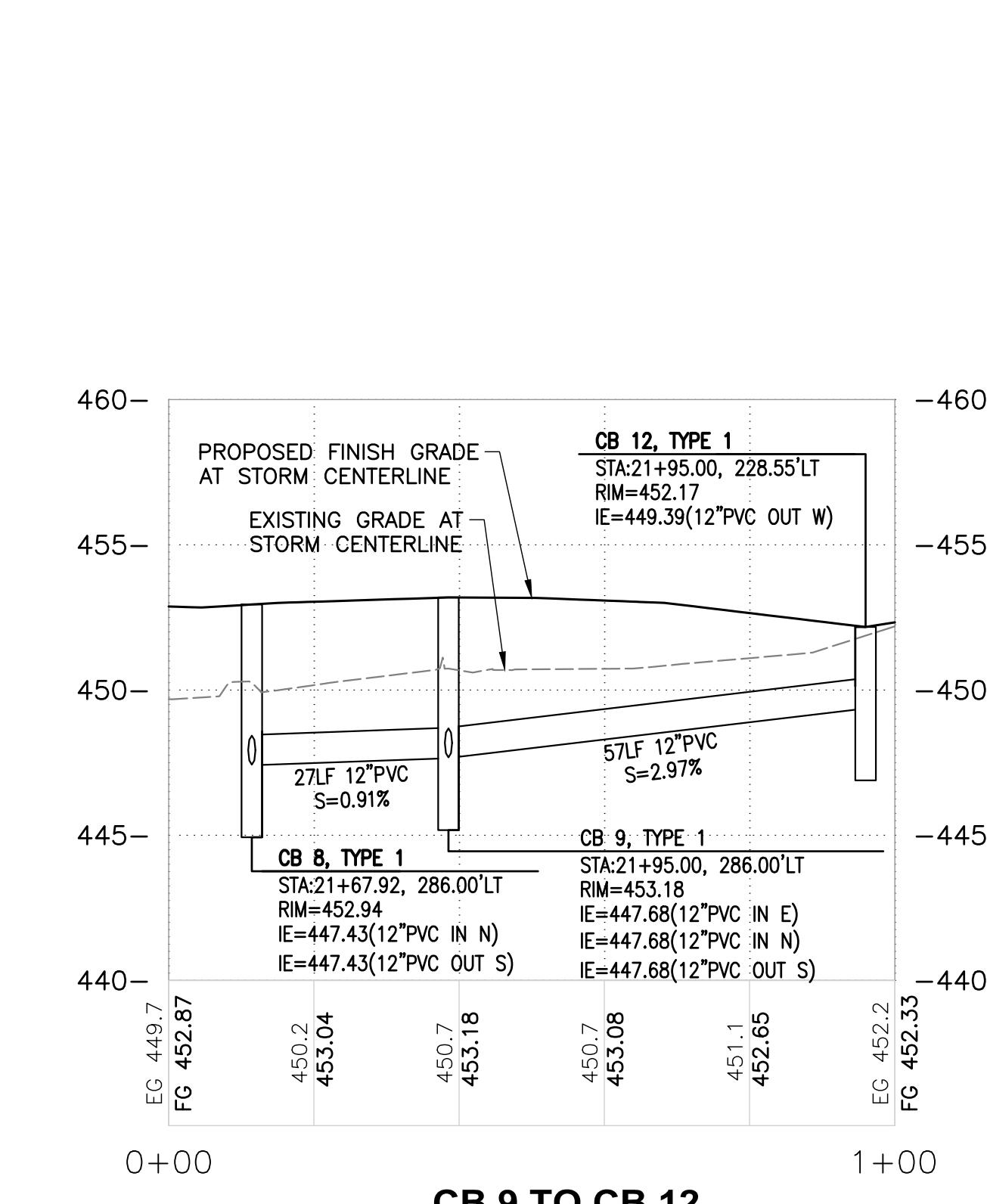
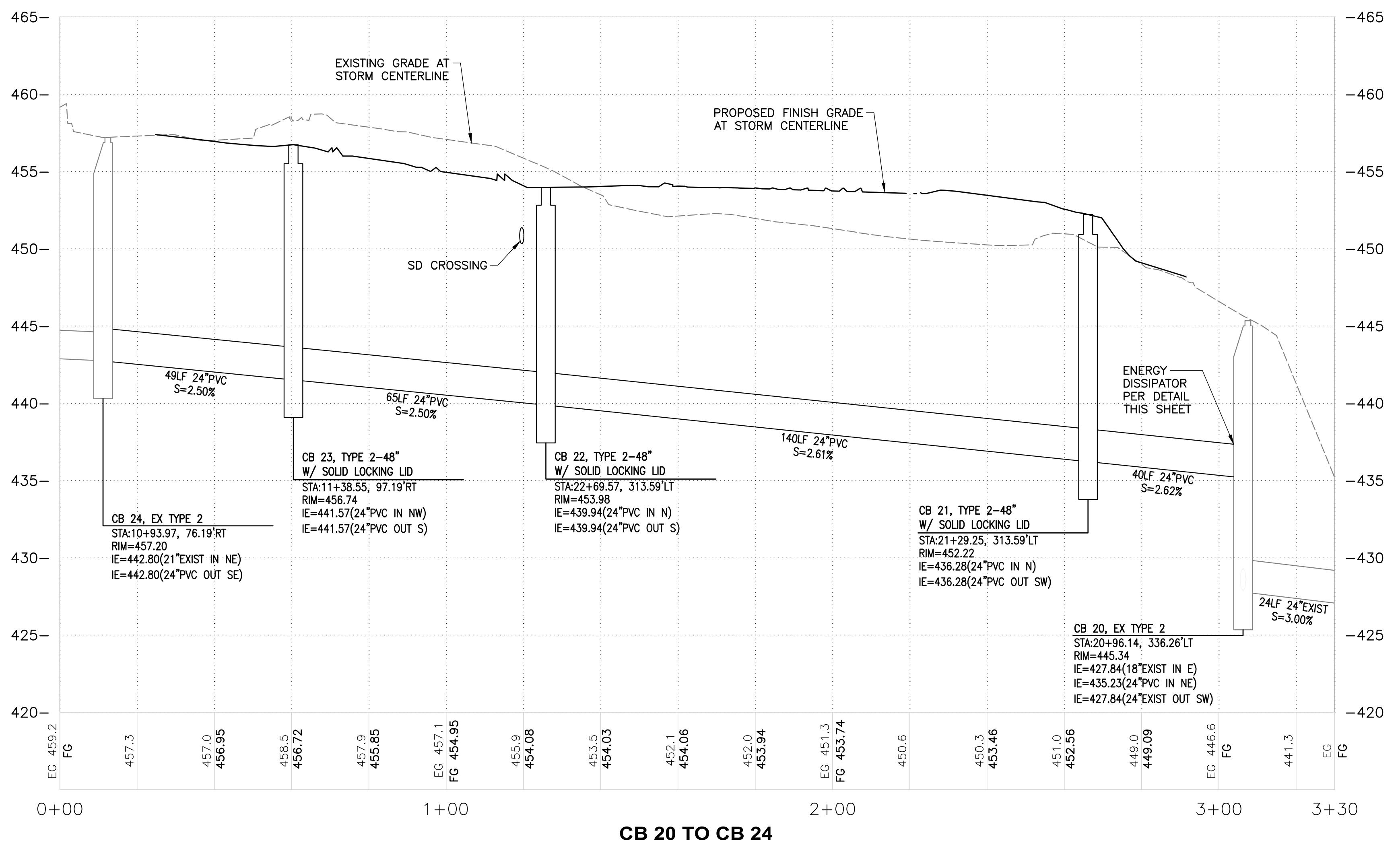
DUMPSTER CATCH BASIN DETAIL
NOT TO SCALE





MOUNTLAKE TERRACE CITY HALL

233204 58TH AVE. W.
MOUNTLAKE TERRACE, WA 98043



ENERGY DISSIPATOR
NOT TO SCALE

HORIZ. 0 10 20 40
Scale In Feet
VERT. 0 2.5 5 10
Scale In Feet

C4.4



BID SET

ISSUE DATE: 10/16/19

REVISION	DATE	DESCRIPTION

CONTENTS:

GRADING AND STORM DRAINAGE

STORM PROFILES

SCALE:
DRAWN:
CHECKED:
PROJECT NO: 18420

SHEET:

C4.4

MOUNT LAKE TERRACE CITY HALL

23204 58TH AVE. W.
MOUNT LAKE TERRACE, WA 98043



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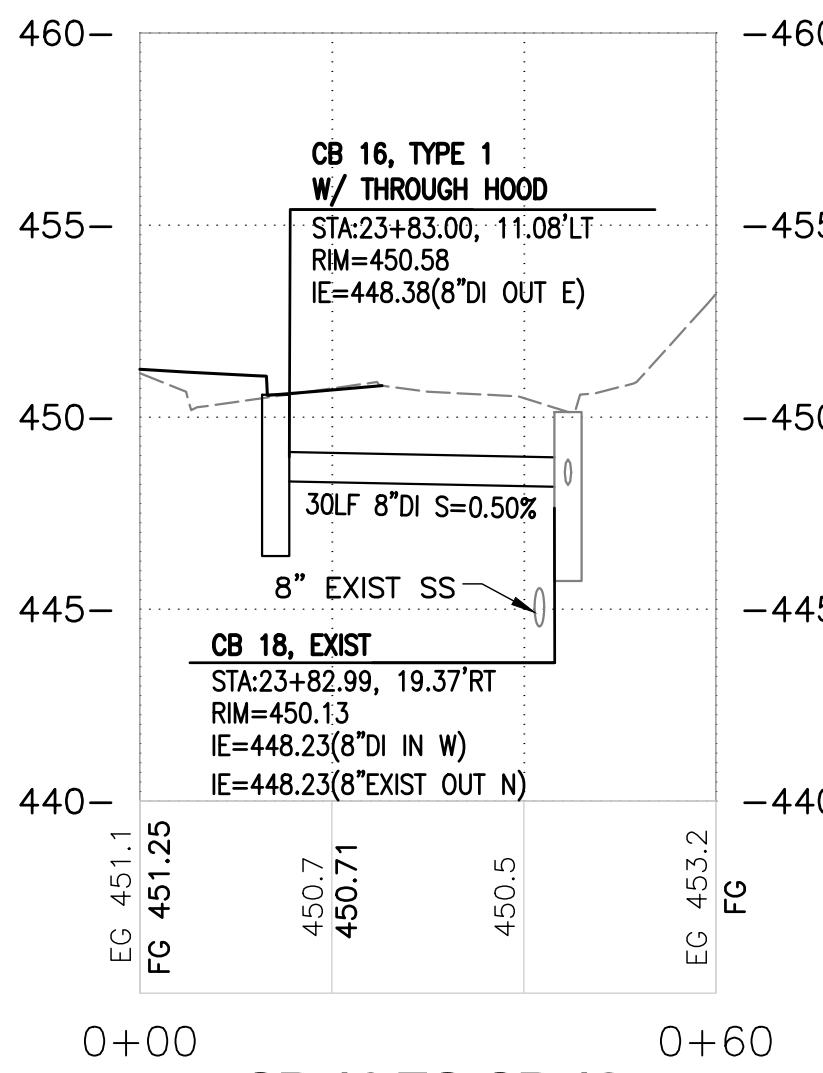
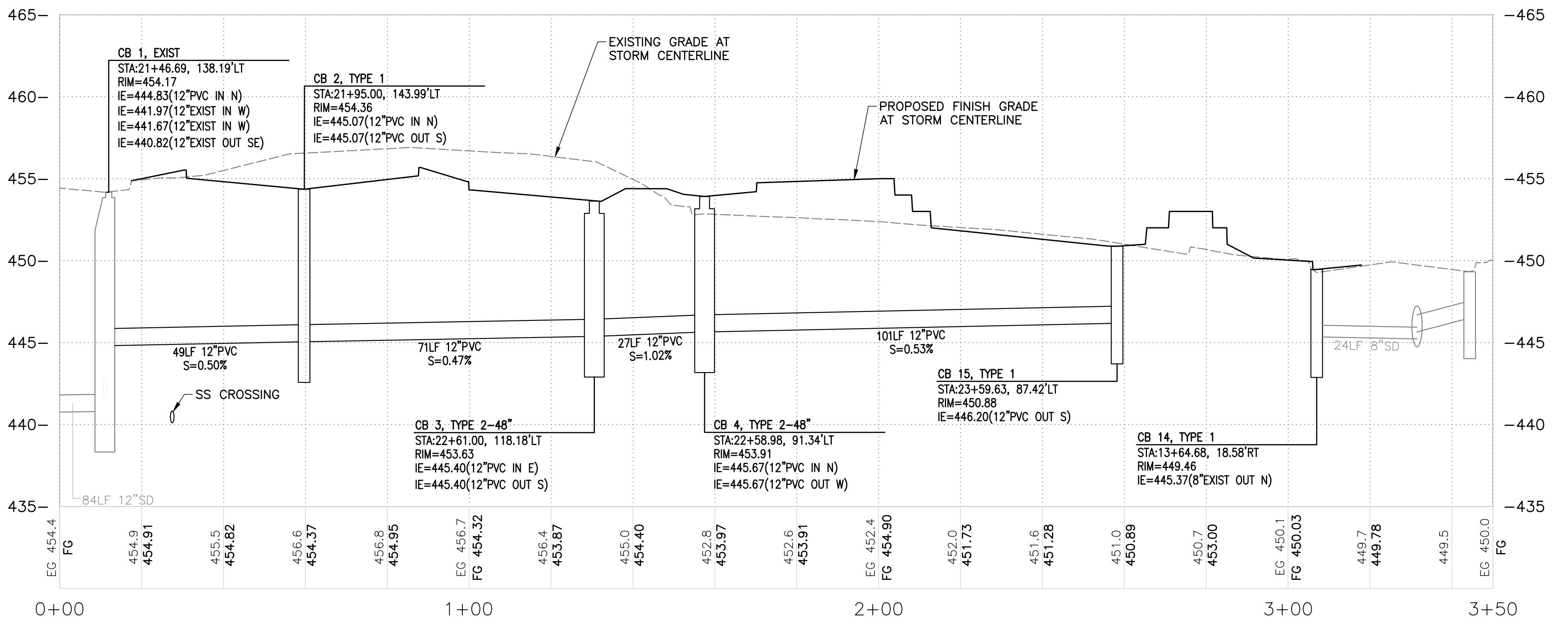
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GRADING AND STORM DRAINAGE

STORM PROFILES

SCALE:
DRAWN:
CHECKED:
PROJECT NO: 18420

SHEET: C4.5



HORIZ. 0 10 20 40
Scale In Feet
VERT. 0 2.5 5 10
Scale In Feet

C4.5

MOUNTLAKE TERRACE CITY HALL

23204 58TH AVE W.
MOUNTLAKE TERRACE, WA 98043



BID SET

ISSUE DATE: 10/16/19

REVISION	DATE	DESCRIPTION

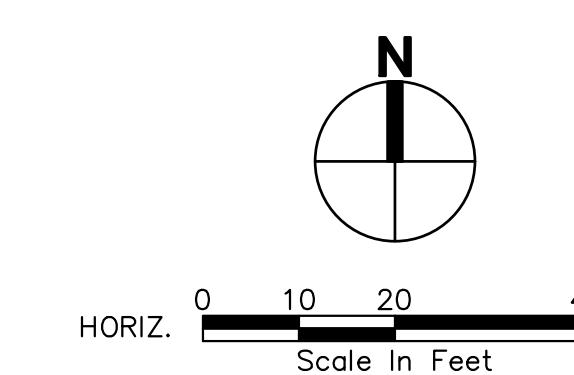
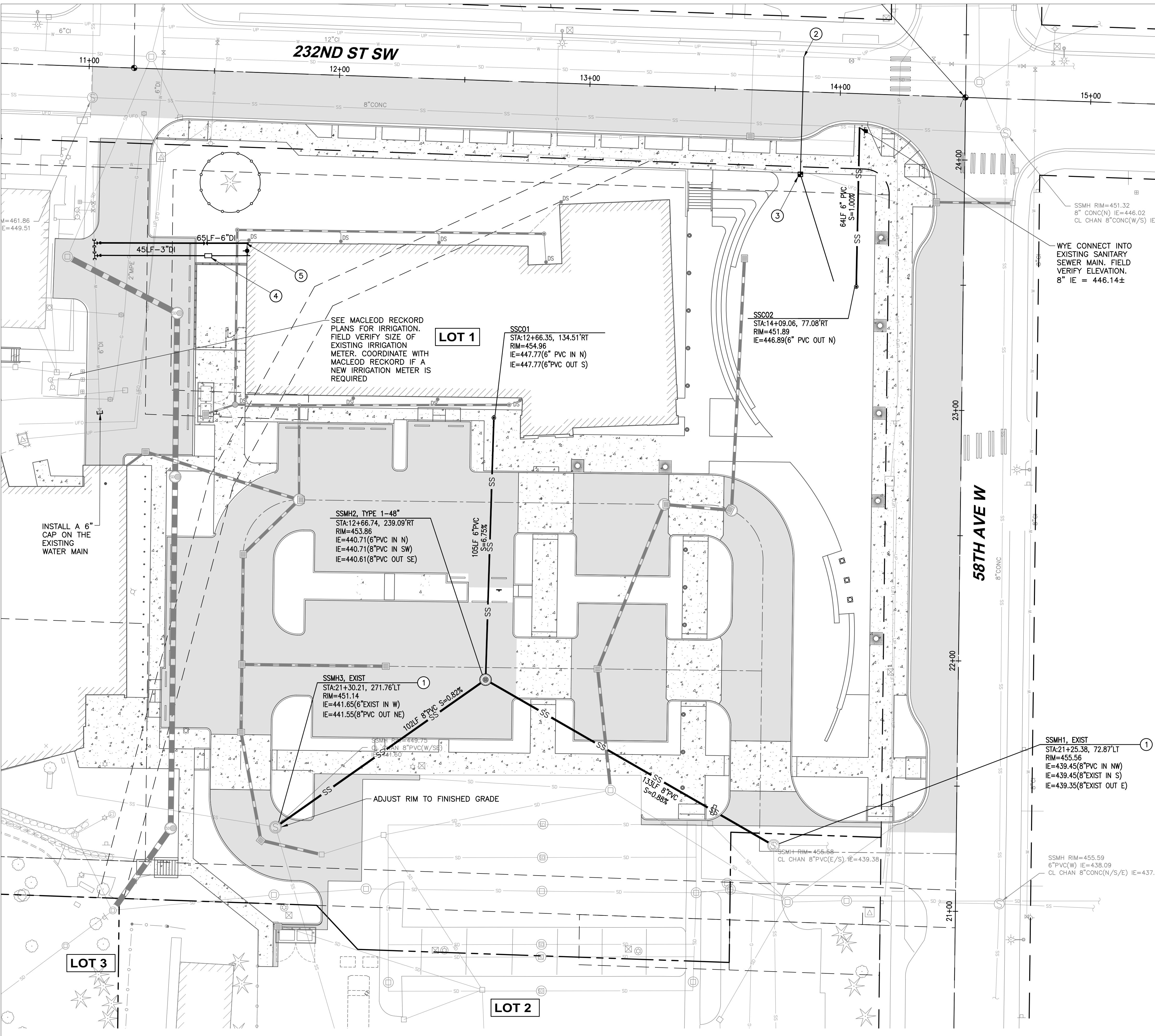
CONTENTS:

WATER AND SEWER PLAN

SCALE:
DRAWN:
CHECKED:
PROJECT NO: 18420

SHEET:

C5.0



SHEET:

C5.0

MOUNTLAKE TERRACE

CITY HALL

23204 58TH AVE. W.
MOUNTLAKE TERRACE, WA 98043



BID SET

ISSUE DATE: 10/16/19

REVISION	DATE	DESCRIPTION

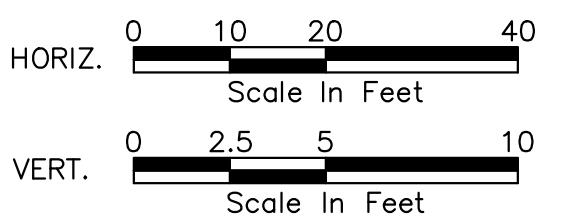
CONTENTS:

WATER AND SEWER

SEWER PROFILE

SCALE:
DRAWN:
CHECKED:
PROJECT NO: 18420

SHEET:



C5.1

