

ENVIRONMENTAL PROTECTION SPECIFICATIONS

1. PURPOSE: THE OBJECTIVE OF THIS ENVIRONMENTAL PROTECTION PLAN (EPP) IS TO ESTABLISH PROCEDURES FOR THE CONTRACTOR TO FOLLOW DURING THE CONSTRUCTION OF THE GUAM COMMUNITY COLLEGE (GCC) BUILDING 100 RENOVATION, LOCATED WITHIN GCC CAMPUS, MUNICIPALITY OF MANGILAO. THE EPP WILL ASSURE COMPLIANCE WITH LAWS AND REGULATIONS OF THE FEDERAL ENVIRONMENTAL PROTECTION AGENCY (EPA) AND GUAM ENVIRONMENTAL PROTECTION AGENCY (GEPa).
2. PROJECT LOCATION: THE PROJECT IS LOCATED, LOT 5376-NEW-2A AT GCC CAMPUS.
3. PROJECT INFORMATION: THIS PROJECT IS FOR THE CONSTRUCTION OF BUILDING 100 RENOVATION. IT IS ANTICIPATED THAT MAJORITY OF THE CONSTRUCTION WORKS WILL BE DONE USING HEAVY EQUIPMENT. THE LIMITS OF THE CONSTRUCTION ARE INDICATED IN THE DRAWINGS.
4. SITE AND DRAINAGE FEATURES: PRESENTLY, THE BUILDING IMPROVEMENT FALLS WITHIN THE EXISTING BUILDING 100. BOTH THE EAST AND WEST SIDES OF THE BUILDING ARE COVERED WITH GRASS.
- GCC CAMPUS HAS EXISTING DRAINAGE SYSTEM COMPRISING OF DRAINAGE INLETS/CATCH BASINS THAT COLLECT SURFACE RUNOFFS AND UNDERGROUND DRAINAGE PIPES THAT CONVEY RUNOFFS TO THE PONDING BASIN LOCATED NEAR THE SOUTHWEST PROPERTY CORNER OF THE CAMPUS.
5. TEMPORARY EROSION AND SEDIMENTATION CONTROL MEASURES: THE GUAM SOIL EROSION AND SEDIMENTATION CONTROL MANUAL PUBLISHED BY GEPa IN 1986 IS HEREBY ADOPTED AS REFERENCE SPECIFICATION FOR THE IMPLEMENTATION OF EROSION AND SEDIMENTATION CONTROL ON THIS PROJECT.

THE FOLLOWING MEASURES AND PROCEDURES AS DERIVED FROM THE MANUAL WILL BE EMPLOYED DURING CONSTRUCTION TO CONTROL EROSION AND PREVENT OCCURRENCE OF DRAINAGE AND SEDIMENTATION PROBLEMS:

1. GRADING WILL BE ACCOMPLISHED ONLY DURING SUITABLE WEATHER CONDITIONS. NO EARTH MOVING OR FILLING OPERATIONS WILL BE UNDERTAKEN DURING INCLEMENT WEATHER CONDITIONS.
2. TEMPORARY EARTH BERMS OR SILT FENCES WILL BE INSTALLED, AS NECESSARY, TO CONTAIN RUNOFF GENERATED DURING THE CLEARING AND GRADING WORK.
3. SHOULD EROSION OF EXPOSED CLEARED AREAS BE OBSERVED, THESE AREAS WILL BE PROVIDED WITH JUTE NETTING, MULCHING OR PLACEMENT OF LEAFY VEGETATION SUCH AS PALM FRONDS OR OTHER ACCEPTABLE METHODS TO ARREST THE EROSION PROCESS.
6. AIR POLLUTION: PARTICULATE (DUST) AND EXHAUST GASSES (HYDROCARBONS AND CARBON MONOXIDE) AREA NOT EXPECTED TO DEGRADE THE AIR QUALITY IN THE AREA DURING CONSTRUCTION.
7. SOLID WASTE: SOLID WASTE CONSIST OF TREE AND PLAN MATERIAL AND OTHER DISCARD SOIL MATERIALS RESULTING FROM LAND CLEARING AND GRUBBING ACTIVITIES. ALL VEGETATIVE AND SHRUBBERY DEBRIS SHALL MAY BE LEFT "ON-SITE" WITHIN THE LIMITS OF THE CONSTRUCTION AREA. THE DEBRIS SHALL BE PLACED SUCH THAT IT WILL NOT POSE HAZARD TO PERSONNEL. NO DEBRIS SHALL BE ALLOWED TO ENCRoACH BEYOND THE LIMITS OF THE ACTIVE CONSTRUCTION AREA WITHIN THE PROPERTY.

8. SANITARY WASTE: SANITARY WASTE CONSIST OF DOMESTIC SANITARY SEWAGE AND GARBAGE SUCH AS REFUSE AND SCRAPS RESULTING FROM PREPARATION AND CONSUMPTION OF FOOD. GARBAGE MATERIAL SHALL BE STORED IN CLOSED CONTAINERS THAT CON NOT BE OPENED BY STRAY ANIMALS. SANITARY WASTES, IF ANY SHALL BE DISPOSED OF PROPERLY TO THE LANDFILL ON A REGULAR BASIS.

THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE PORTABLE TEMPORARY TOILET FACILITIES IN SUFFICIENT NUMBERS TO ACCOMMODATE ALL CONSTRUCTION PERSONNEL. THE PORTABLE TOILETS SHALL BE EMPTIED PERIODICALLY IN A MANNER ACCEPTABLE TO GWA, AND MAINTAINED AT ALL TIMES WITHOUT NUISANCE. UPON COMPLETION OF THE WORK, THEY SHALL BE REMOVED FROM THE PREMISES.

9. PEST CONTROL: THE CONTRACTOR IS REQUIRED TO DISCOURAGED BREEDING OR ATTRACTION OF PESTS ON THE JOB SITE. THERE SHALL BE NO OPEN CONTAINERS OF STAGNANT WATER, WHICH WILL ACT AS A BREEDING AREA FOR MOSQUITOES. FOOD OR OTHER ORGANIC MATTER SHALL NOT BE LEFT IN OPEN TO ATTRACT FLIES, RATS, OR STRAY ANIMALS.

10. PETROLEUM PRODUCTS: PRIMARILY CONSIST OF DIESEL AND GASOLINE FUELS, HYDRAULIC FLUID, LUBRICANTS, AND GREASE, WHICH ARE USED BY MACHINERY DURING CONSTRUCTION, THE CONTRACTOR SHALL NOT ALLOW ANY PETROLEUM PRODUCTS TO ENTER, BY ANY MEANS, NEAR THE SHORE OR GROUNDWATER.

THE CONTRACTOR SHALL USE THE FOLLOWING GUIDELINES TO INSURE THAT THERE IS NO POLLUTION CAUSED BY PETROLEUM PRODUCTS:

1. GASOLINE: NO FIXED STORAGE OF LARGE QUANTITIES. IF A TANKER IS USED, FUELING OF MACHINERY SHALL BE DONE IN A SAFE MANNER. CONTAINERS SHALL BE COVERED AT ALL TIMES AND SMOKING PRECAUTIONS SHALL BE STRICTLY FOLLOWED.
2. HYDRAULIC FLUID, DIESEL, LUBRICATING OIL, AND GREASE: ANY STORAGE OF THESE SUBSTANCES SHALL BE IN AN APPROVED AND APPROPRIATE STORAGE CONTAINERS. ANY ACCIDENTAL SPILLS SHALL BE IMMEDIATELY CLEANED UP. THE STORAGE AREA, IF ANY, SHALL BE SECURED BY FENCE OR OTHER SUITABLE DETERRENT.
3. OILY WASTE: ALL OILY WASTES SHALL BE STORED AND SEALED IN CONTAINERS AWAY FROM THE SHORELINE AND IN SECURED AREA. CONTAINERS OF USED OIL SHALL BE DISPOSED OF AT A LICENSED FACILITY IN ACCORDANCE WITH THE STANDARDS OF GEPa. OILY SOAKED SAND, OILY RAGS, OIL FILTERS, ETC. SHALL BE STORED IN SEALED CONTAINERS AND DISPOSED OF PROPERLY.

SURVEY NOTES:

1. HORIZONTAL AND VERTICAL CONTROL SURVEY WAS BASED FROM GGN-1189 LOCATED NEAR THE SOUTHWEST PROPERTY CORNER AND G.C. 151 (REBAR SET ON GROUND) AT THE SOUTH STUDENT PARKING AREA. THESE SURVEY REFERENCE POINTS HAVE THE FOLLOWING DATA:
- | | |
|-----------------|------------------------------|
| GGN-1189 | GC-151 (REBAR SET ON GROUND) |
| N 634,111.0179' | N 634,157.9364' |
| E 348,338.2186' | E 348,772.3884' |
| | EL.=289.10' |
2. VERTICAL DATUM IS MEAN SEA LEVEL (MSL).
3. CONTOURS WERE DEVELOPED FROM SPOT ELEVATIONS USING STANDARD GROUND TOPOGRAPHIC SURVEY METHODS AND GPS.
4. COORDINATES PROVIDED FOR BUILDING OR STRUCTURE CORNERS ARE BASED ON OUTSIDE FACE OF WALLS OR COLUMNS, WHICHEVER APPLY.
5. COORDINATES PROVIDED FOR CLEAN OUTS, CATCH BASIN, FIELD INLETS, HEADWALLS/ENDWALLS, ECT. ARE BASED ARE BASED ON CENTER POINT OF THE ITEM.

11. HAZARDOUS WASTES: IT IS UNLIKELY THAT LARGE QUANTITIES OF HAZARDOUS WASTE WILL BE GENERATED DURING CONSTRUCTION OF THIS PHASE OF THE PROJECT. IF THERE ARE ANY HAZARDOUS WASTES GENERATED, THEY SHALL BE DISPOSED OF OFF-SITE IN A MANNER CONSISTENT WITH GEPa REGULATIONS.
12. PUBLIC SAFETY: A SECURITY FENCE OR BARRIER SHALL BE INSTALLED AROUND THE PROJECT SITE OR ALONG THE LIMITS OF CONSTRUCTION. SIGN THAT READ "CONSTRUCTION AREA-KEEP OUT" WILL BE PLACED ON THE OUTSIDE FACE OF THE SECURITY FENCE OR BARRIER.
13. NOISE CONTROL: NOISE ASSOCIATED WITH THIS PROJECT IS NOT EXPECTED TO BE SIGNIFICANTLY HIGHER THAT THE EXISTING CONDITION.
14. NATURAL RESOURCES: THERE ARE NO KNOWN NATURAL RESOURCES WITHIN THE PROJECT SITE.
15. HISTORICAL AND ARCHAEOLOGICAL: THERE ARE NO KNOW ARCHAEOLOGICAL ITEMS WITHIN THE PROJECT SITE. HOWEVER, SHOULD ANY MATERIAL OF APPARENT ARCHAEOLOGICAL OR HISTORICAL SIGNIFICANCE IS FOUND, ALL WORK IN THE AREA OF FIND SHALL STOP. THE CONTRACTOR WILL IMMEDIATELY NOTIFY THE HISTORIC RESOURCES OFFICE OF THE HISTORIC PRESERVATION OFFICE (HPO) IN THE GUAM DEPARTMENT OF PARKS AND RECREATION. THEIR TELEPHONE NUMBERS ARE 475-6290 OR 475-6291. IF A DISCOVERY IS MADE ON WEEKENDS, HOLIDAYS, OR AFTER REGULAR WORKING HOURS, THE HPO WILL BE NOTIFIED AS SOON AS POSSIBLE ON THE NEXT WORKING DAY AND WORK WILL NOT RESUME WITHOUT APPROVAL OF THE HPO.

16. TYPHOON CONTINGENCY PLAN: THE CONTRACTOR IS RESPONSIBLE FOR ASSURING THAT UNNECESSARY ENVIRONMENTAL DAMAGE DOES NOT OCCUR DURING PERIODS OF EXTREME BAD WEATHER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SECURITY AND SAFETY OF THE CONSTRUCTION AREA WHEN WARNING OF WINDS OF GALE FORCE (34 KNOTS OR MORE) ARE ISSUED. SATISFACTORY DAY-TO-DAY CLEANUP OF THE JOB SITE IS ESSENTIAL IN ORDER TO BE PROPERLY PREPARED FOR INCLEMENT WEATHER CONDITIONS.

WHEN CONDITION OF READINESS (COR) 2 IS DECLARED, THE CONTRACTOR SHALL CEASE ROUTINE ACTIVITIES TO ALLOW MAXIMUM SECURING EFFORT. ANY FUEL DRUMS OR OTHER POTENTIALLY DANGEROUS MATERIALS SHALL BE SECURED.

17. REMOVAL OF CONSTRUCTION STRUCTURES: ALL TEMPORARY CONSTRUCTION STRUCTURES SHALL BE REMOVED AND ALL TEMPORARY FACILITIES SHALL BE OBLITERATED AND PUT BACK TO ORIGINAL CONDITION.

18. TRAFFIC CONTROL: WORK ON THIS PROJECT IS NOT EXPECTED TO AFFECT TRAFFIC AT NEARBY STREETS. HOWEVER, IF ANY CONSTRUCTION ACTIVITIES THAT MAY DISTURBED THE NORMAL TRAFFIC IN THE AREA, THESE ACTIVITIES WILL BE COORDINATED WITH THE DEPARTMENT OF PUBLIC WORKS TO INSURE SMOOTH AND SAFE DRIVING CONDITIONS.

LEGEND, SYMBOLS, AND ABBREVIATIONS

ABBREVIATION/ SYMBOLS	DESCRIPTION	ABBREVIATION/ SYMBOLS	DESCRIPTION
A.C.	ASPHALTIC CONCRETE	L	LENGTH
@	AT	✳	LIGHT POST (LP)
ARCH.	ARCHITECT	□	MAN HOLE (MH)
BC	BOTTOM OF CURB	MAX.	MAXIMUM
CB	CATCH BASIN	MECH.	MECHANICAL
▣	CABLE BOX (C-BOX)	M.J.	MECHANICAL JOINT
CHD	CHORD DISTANCE	MIN.	MINIMUM
CO	CLEAN OUT	O.C.	ON CENTER
CONC.	CONCRETE	PVC	POLY VINYL CHLORIDE
✳	CONCRETE PAD	R	RADIUS
COCONUT/PALM TREE	CONCRETE POWER POLE (CPP)	⊙	SEWER DRAINAGE MANHOLE (SDMH)
CONT.	CONTINUOUS	SL	SEWER LINE
DRWGS/DWGS.	DRAWINGS	⊗	SEWER MANHOLE (SMH)
∅	DIAMETER	⌒	SIGN
DL	DRAINAGE LINE	S	SLOPE
EL./ELEV.	ELEVATIONS	STA.	STATION
EMH	ELECTRICAL MANHOLE	STRUCT.	STRUCTURAL
EXIST./ (E)	EXISTING	SWALE	SWALE
--- 385 ---	EXISTING CONTOUR LINE	TEL.	TELEPHONE
—x—x—	FENCE LINE	TREE	TREE
400	FINISHED CONTOUR LINE	THK.	THICK
FFE	FINISHED FLOOR ELEVATION	TC	TOP OF CURB
FG	FINISHED GRADE	TW	TOP OF WALL
FM	FIRE HYDRANT (FH)	TYP.	TYPICAL
FM	FORCEMAIN	WL	WATERLINE
—x—x—	GATE	∅	WATER METER (WM)
○	GATE POST (GP)	⊗	WATER VALVE (WV)
⊗	GATE VALVE (GV)	WOODEN POWER POLE (WPP)	WOODEN POWER POLE (WPP)
△/GGN	GUAM GEODETIC NETWORK		
←	GUY WIRE (GW)		
INT.	INTERSECTION		
INV.	INVERT		

GENERAL CONSTRUCTION NOTES:

1. OBSERVE & COMPLY WITH ALL FEDERAL AND LOCAL LAWS REQUIRED FOR THE PROTECTION OF PUBLIC HEALTH, SAFETY & ENVIRONMENTAL QUALITY.
2. THE FINISHED GRADE INDICATED HEREON SHALL MATCH OR CONNECT TO ADJACENT EXISTING GROUND AS SHOWN ON THE GRADING PLANS. ANY DISCREPANCY DISCOVERED DURING THE COURSE OF CONSTRUCTION SHALL BE IMMEDIATELY REPORTED TO THE ENGINEER.
3. ALL DEBRIS AND TRASH FROM CONSTRUCTION SHALL BE DISPOSED OF TO THE APPROVED LANDFILL SITE AND THE CONTRACTOR SHALL COMPLY WITH ALL THE REQUIREMENTS PERTAINING TO THE USE OF DISPOSAL AREA.
4. THE EXISTENCE AND LOCATION OF EXISTING UNDERGROUND UTILITIES AND STRUCTURES SHOWN IN THE PLANS ARE BASED ON THE LATEST AVAILABLE DATA DURING THE TIME OF SURVEY AND INFORMATION OBTAINED FROM GCC AND UTILITY AGENCIES BUT NO GUARANTY AS TO THEIR ACCURACY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATION OF EXISTING UTILITIES AND EXERCISE CAUTION WHEN EXCAVATING IN THE AREA. ANY DAMAGE(S) TO EXISTING UTILITIES AND STRUCTURES RESULTING FROM CONTRACTOR'S OPERATIONS SHALL BE REPAIRED AT NO ADDITIONAL COST TO THE OWNER.
5. WHEREVER CONNECTIONS OF NEW UTILITIES TO EXISTING UTILITIES ARE SHOWN TO BE DONE, THE CONTRACTOR SHALL EXPOSE THE EXISTING UTILITIES AT THE PROPOSED CONNECTION TO VERIFY DEPTH AND ACTUAL LOCATION PRIOR TO EXCAVATING FOR THE NEW UTILITY LINES. IF UTILITIES NOT SHOWN IN THE PLANS ARE ENCOUNTERED OR POTENTIAL UTILITY CONFLICTS ARISES, THE CONTRACTOR SHALL NOTIFY THE CONTRACTING OFFICER IMMEDIATELY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SECURING EXISTING UTILITY LINE UNCOVERED IN THE EXCAVATIONS.
6. PRIOR TO COMMENCING EXCAVATION, THE CONTRACTOR SHALL NOTIFY THE ENGINEER. THE CONTRACTOR SHALL COORDINATE, BE RESPONSIBLE AND PAY FOR AL DAMAGES TO EXISTING UTILITIES AND STRUCTURES. PERSONAL INJURY RESULTING FROM CONTACT WITH EXISTING UTILITIES SHALL BE THE CONTRACTOR'S RESPONSIBILITY.
7. EXISTING UTILITIES SHALL REMAIN IN SERVICE AND IN PLACE, UNLESS NOTED OTHERWISE. INTERRUPTION OF SERVICE SHALL BE KEPT TO A MINIMUM AND SHALL BE DONE AT THE CONTRACTOR'S EXPENSE AND ONLY WITH THE APPROVAL OF THE ENGINEER.
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROPERLY SHEETING AND BRACING THE EXCAVATION AND STABILIZING THE EXISTING GROUND TO PROVIDE SAFE AND SECURE FROM POTENTIAL SLIDING, CAVE-INS, SETTLEMENT, AND TO SUPPORT EXISTING STRUCTURES, POWER/TELEPHONE POLES, AND OTHER FACILITIES.
9. FINISHED GRADES INDICATED ARE INCLUSIVE OF TOP SOIL (IF ANY).
10. VERIFY & CHECK ALL DIMENSIONS & DETAILS SHOWN ON THE DRAWINGS PRIOR TO THE START OF CONSTRUCTION. ANY DISCREPANCY SHALL BE IMMEDIATELY REPORTED TO THE ENGINEER FOR CLARIFICATIONS AND RESOLUTIONS.
11. THE CONTRACTOR SHALL PROVIDE SAFE ACCESS TO AND FROM ALL DRIVEWAYS AND STREETS NEAR THE PROJECT SITE.
12. RESTORE TO THEIR ORIGINAL CONDITION EQUAL OR BETTER, ALL EXISTING IMPROVEMENTS DAMAGED AS A RESULT OF CONSTRUCTION ACTIVITIES, INCLUDING PAVEMENTS, EMBANKMENTS, DRIVEWAYS, CURBS, SIGNS, LANDSCAPING, STRUCTURES, UTILITIES, FENCES, ETC..
13. WHEN EXCAVATING NEAR EXISTING UTILITY POLES OR STRUCTURES, THE CONTRACTOR SHALL BE RESPONSIBLE FOR SECURING SUCH POLES OR STRUCTURES DURING CONSTRUCTION AND MAKE REPAIRS TO ANY DAMAGES RESULTING FROM CONTRACTOR'S OPERATION.
14. PROPERTY CORNERS AND ROAD MONUMENTS SHOWN ON THE PLANS OR DISCOVERED DURING CONSTRUCTION SHALL BE PRESERVED AND NOT TO BE DISTURBED. IN ANY CASE, IF THE CONTRACTOR DISTURBED ANY OF THESE MARKERS OR MONUMENTS, THEY SHALL BE REPAIRED AND RESTORED TO THEIR ORIGINAL AND BETTER CONDITION AT NO ADDITIONAL COST TO THE GWA.
15. THE CONTRACTOR SHALL FOLLOW CLOSELY THE PROPOSED HORIZONTAL AND VERTICAL ALIGNMENTS. ANY PROPOSED DEVIATIONS FROM THE PROPOSED ALIGNMENTS MUST BE APPROVED BY THE CONTRACTING OFFICER BEFORE IT IS APPLIED IN THE FIELD.
16. THE CONTRACTOR MUST SECURE UNDERGROUND TELEPHONE CABLE CLEARANCE PRIOR TO ANY EXCAVATION. ANY REPAIRS TO DAMAGED TELEPHONE CABLE FACILITIES OR RELOCATION OF THE SAME, SHALL BE BORNE BY THE CONTRACTOR AT NO COST TO GTA.
17. EXCAVATIONS DEEPER THAN 3 FEET AND 5 TO 10 FEET FROM EXISTING POLES SHALL HAVE TRENCH SHORING. THE CONTRACTOR SHALL PROTECT AGAINST SOIL WASHOUT. IF EXCAVATION IS DEEPER THAN 3 FEET AND WITHIN 5 FEET FROM AN EXISTING POLE, THE POLE SHALL BE RELOCATED. IN ANY CASE, THE CONTRACTOR SHALL PROTECT THE INTEGRITY OF THE POLE FOUNDATION. ALL RELOCATION COSTS INCLUDING LABOR AND MATERIALS SHALL BE BURDENED BY THE CONTRACTOR. THE CONTRACTOR SHALL SUBMIT/MAKE APPLICATION WITH GPA AND SUBMIT GPA APPROVED RELOCATION PLANS PRIOR TO ANY MATERIALS ISSUED OR INSPECTIONS PERFORMED BY GPA. PROVIDE 12 INCHES MINIMUM CLEARANCE BETWEEN GPA POWER CONDUITS AND ALL NEW INSTALLATIONS. THE CONTRACTOR SHALL SECURE WORK CLEARANCE WITH GPA PRIOR TO EXCAVATION.
18. NEWLY GRADED AREAS AND AREAS DISTURBED DURING CONSTRUCTION SHALL BE PROVIDED WITH 4" THICK TOP SOIL AND PLANTED WITH SEEDS OR TURF APPROPRIATE FOR THE TYPE OF SOILS AT THE SITE. COORDINATE WITH THE ENGINEER FOR TYPE OF SEEDS OR PLANTINGS TO BE USED. THE CONTRACTOR SHALL MAKE USE OF EXISTING TOP SOILS AT THE SITE, AS MUCH AS POSSIBLE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTENANCE OF SEEDS OR PLANTINGS UNTIL A 95% GROUND COVER IS ATTAINED.
19. AFTER SITE CLEARING AND GRADING CUTS ARE MADE WITHIN THE PLANNED BUILDING, INCLUDING ADJOINING SIDEWALKS, PAVEMENT AREAS, AND AT LEAST THREE (3) MORE FEET HORIZONTALLY BEYOND, THE EXPOSED SANDY CLAYEY SILT WITHIN THE UPPER 2 FEET SHOULD BE REMOVED FOR REPLACEMENT WITH COMPACTED, NONEXPANSIVE LIMESTONE/ GRAVEL FILL.

REVISIONS		
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EDUARDO M. SALAMANTIN

CERTIFICATE
No 1123
(CIVIL)
EXP. 24/05/2015
GUAM
PROFESSIONAL ENGINEER

I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION

DATE: _____

Project:

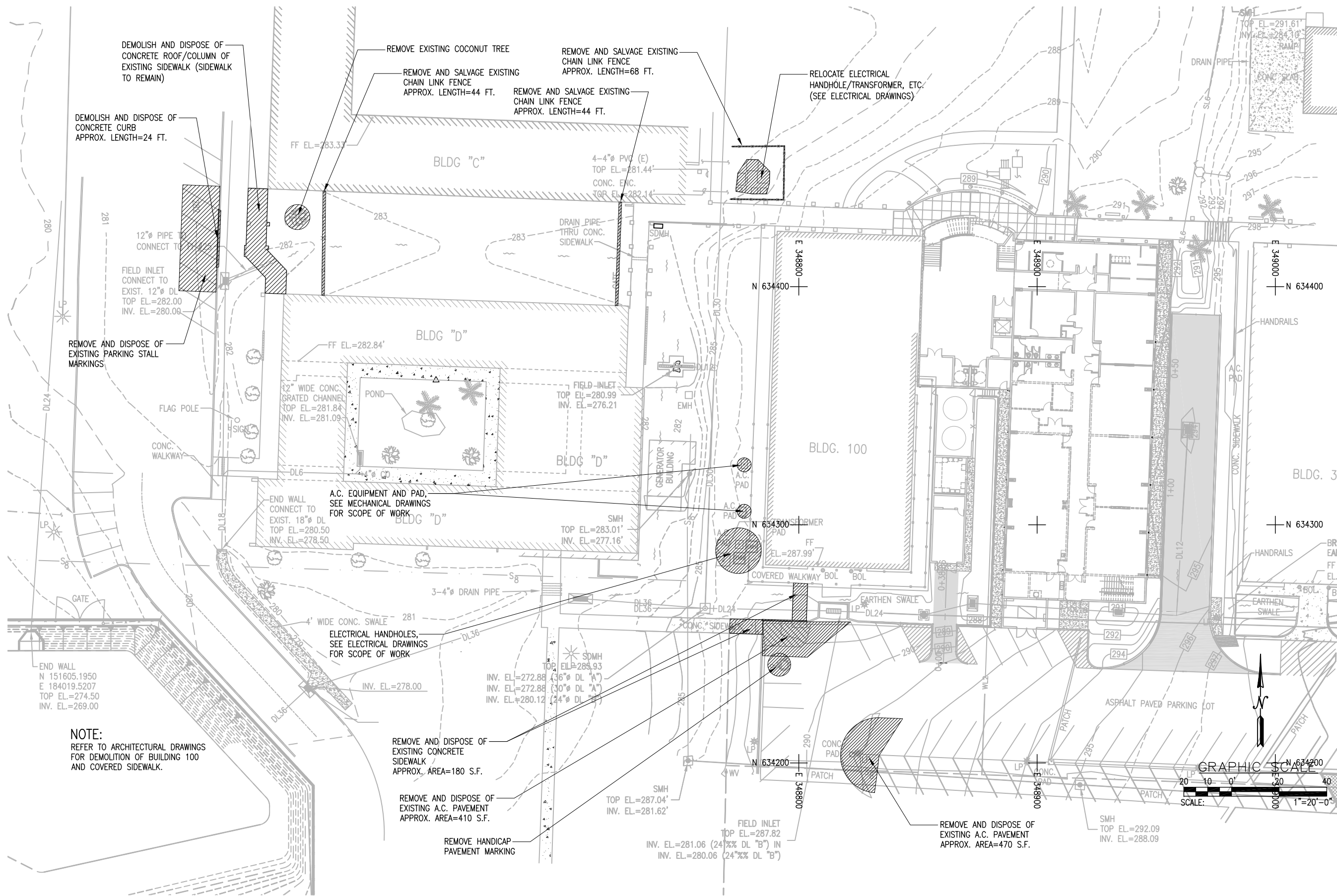
GCC
BLDG 100 RENOVATION

Title:

ENVIRONMENTAL PROTECTION NOTES,
SURVEY NOTES, LEGENDS, SYMBOLS,
ABBREVIATIONS, AND GENERAL
CONSTRUCTION NOTES

Designed: ELV
Drawn: ELV
Checked: EMS
Supv: EMS
Scale: AS SHOWN
Date: 20 JUNE 2013
Project No. GG11-03A AutoCAD File
Drawing No.

C-0
Sheet No. _____ of _____



DEMOLISH AND DISPOSE OF CONCRETE ROOF/COLUMN OF EXISTING SIDEWALK (SIDEWALK TO REMAIN)

DEMOLISH AND DISPOSE OF CONCRETE CURB APPROX. LENGTH=24 FT.

REMOVE EXISTING COCONUT TREE
REMOVE AND SALVAGE EXISTING CHAIN LINK FENCE APPROX. LENGTH=44 FT.

REMOVE AND SALVAGE EXISTING CHAIN LINK FENCE APPROX. LENGTH=68 FT.
REMOVE AND SALVAGE EXISTING CHAIN LINK FENCE APPROX. LENGTH=44 FT.

RELOCATE ELECTRICAL HANDHOLE/TRANSFORMER, ETC. (SEE ELECTRICAL DRAWINGS)

12" PIPE CONNECT TO
FIELD INLET CONNECT TO EXIST. 12" DL TOP EL.=282.00 INV. EL.=280.00

REMOVE AND DISPOSE OF EXISTING PARKING STALL MARKINGS

12" WIDE CONC. GRATED CHANNEL TOP EL.=281.84 INV. EL.=281.09

FIELD INLET TOP EL.=280.99 INV. EL.=276.21

A.C. EQUIPMENT AND PAD, SEE MECHANICAL DRAWINGS FOR SCOPE OF WORK

END WALL CONNECT TO EXIST. 18" DL TOP EL.=280.50 INV. EL.=278.50

SMH TOP EL.=283.01 INV. EL.=277.16

ELECTRICAL HANDHOLES, SEE ELECTRICAL DRAWINGS FOR SCOPE OF WORK

INV. EL.=278.00

SMH TOP EL.=283.93 INV. EL.=272.88 (36" DL "A") INV. EL.=272.88 (30" DL "A") INV. EL.=280.12 (24" DL "B")

REMOVE AND DISPOSE OF EXISTING CONCRETE SIDEWALK APPROX. AREA=180 S.F.

REMOVE AND DISPOSE OF EXISTING A.C. PAVEMENT APPROX. AREA=410 S.F.

REMOVE HANDICAP PAVEMENT MARKING

FIELD INLET TOP EL.=287.82 INV. EL.=281.06 (24" DL "B") INV. EL.=280.06 (24" DL "B")

REMOVE AND DISPOSE OF EXISTING A.C. PAVEMENT APPROX. AREA=470 S.F.

SMH TOP EL.=292.09 INV. EL.=288.09

NOTE:
REFER TO ARCHITECTURAL DRAWINGS FOR DEMOLITION OF BUILDING 100 AND COVERED SIDEWALK.

1 EXISTING CONDITION AND REMOVAL PLAN
SCALE: 1"=20'-0"



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DATE: _____

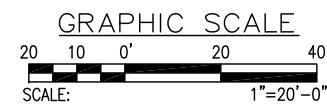
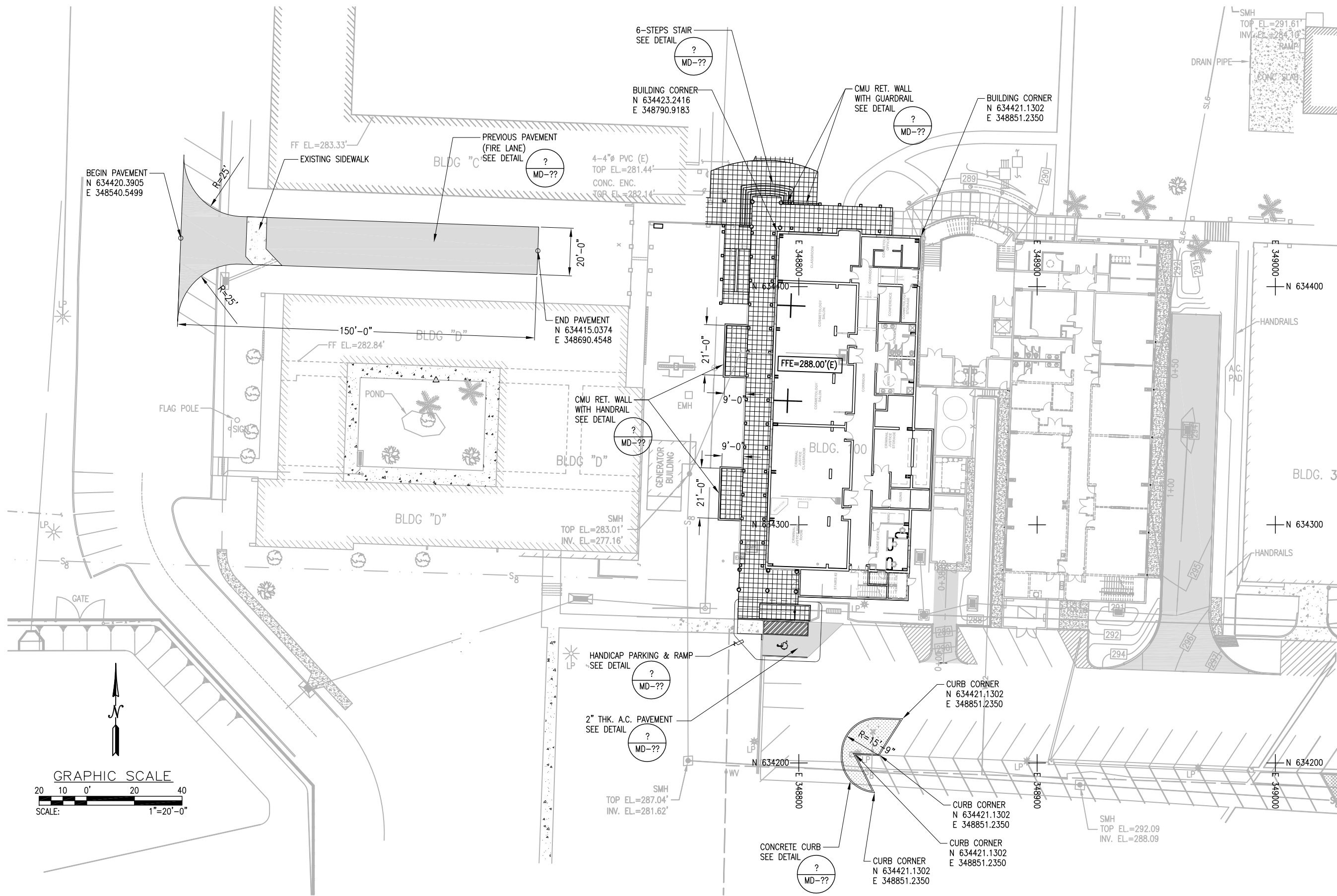
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BLDG 100 RENOVATION

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EXISTING CONDITION AND REMOVAL PLAN

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C-1
Sheet No. _____ of _____

IF SHEET IS LESS THAN 24" X 36"
REDUCED PRINT - USE GRAPHIC SCALES



1 SITE GEOMETRIC PLAN
SCALE: 1"=20'-0"

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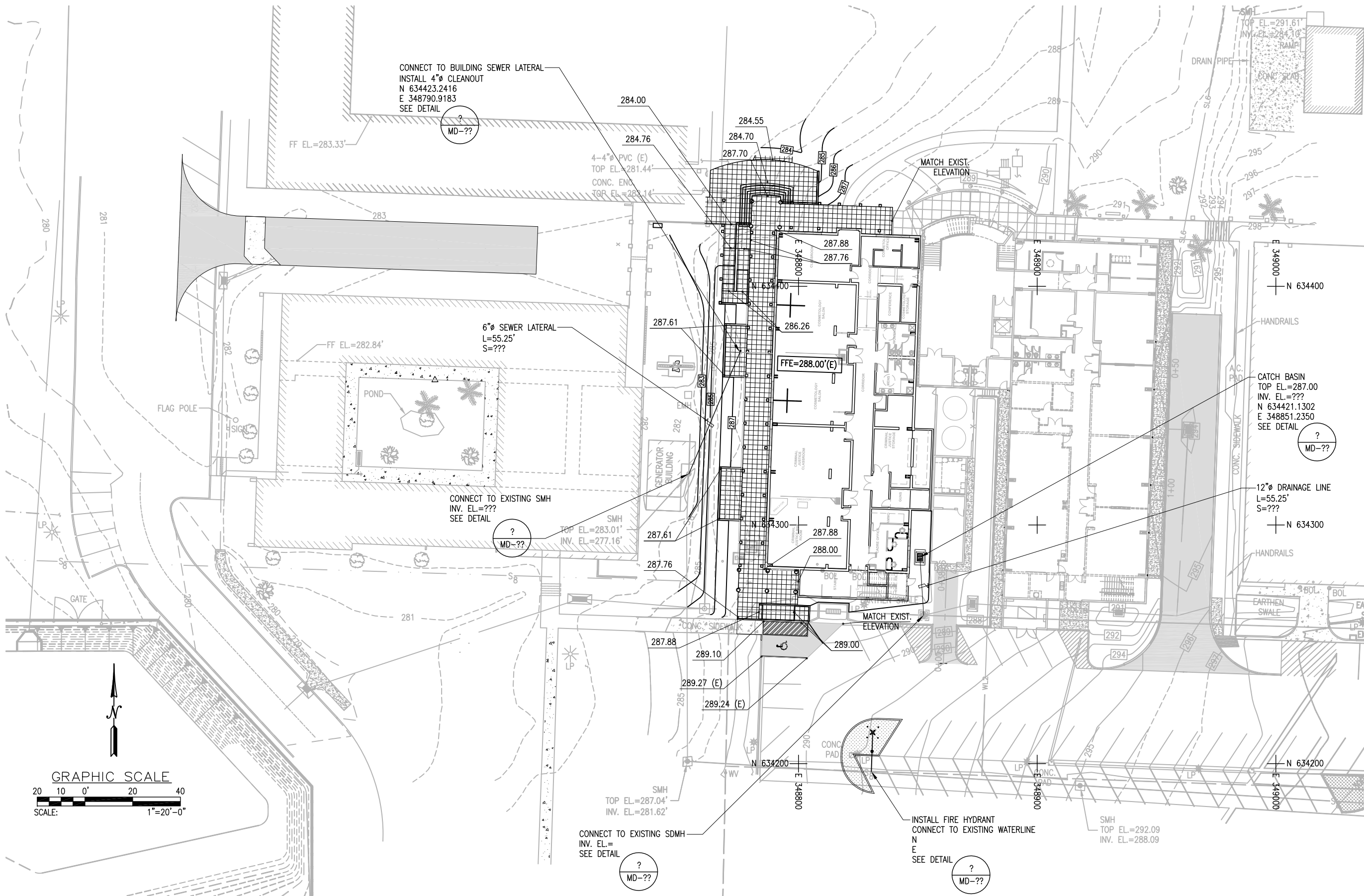
ROLANDO M. SALAMIN
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Project:
GCC
BLDG 100 RENOVATION

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C-2
Sheet No. _____ of _____



1 GRADING, DRAINAGE, AND UTILITY PLAN
SCALE: 1"=20'-0"

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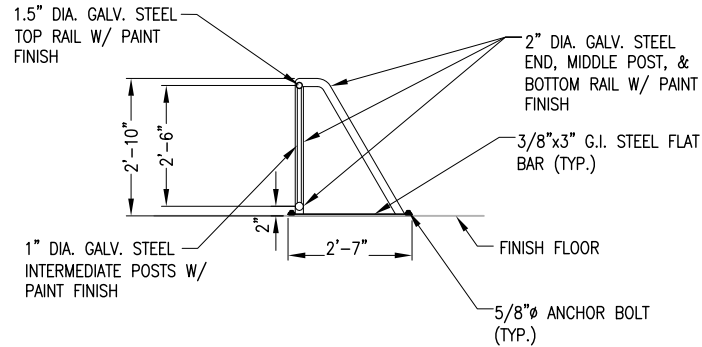
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Title:
EXISTING CONDITION AND REMOVAL PLAN

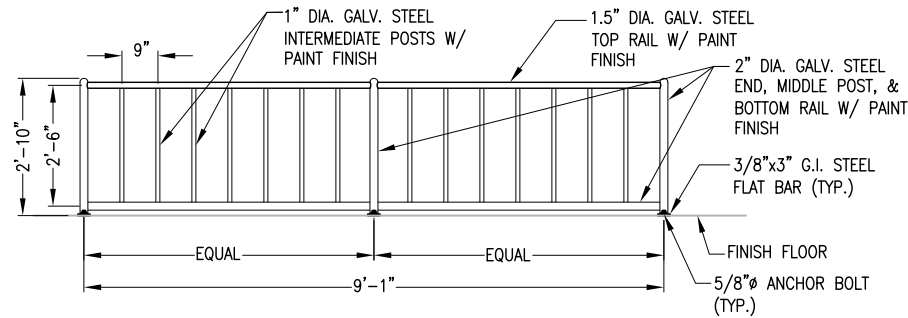
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Supv: EMS
Scale: AS SHOWN
Date: 20 JUNE 2013
Project No. AutoCAD File
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Drawing No.

C-3
Sheet No. _____ of _____

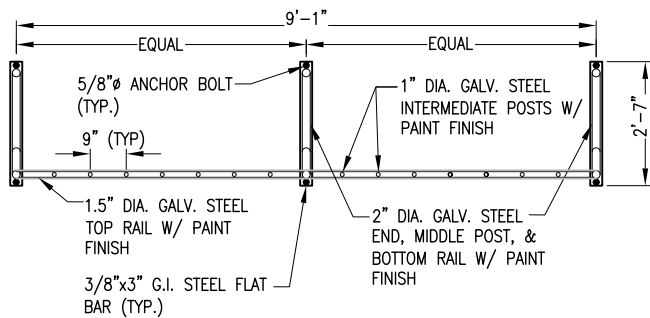
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7C SIDE ELEVATION
NOT TO SCALE

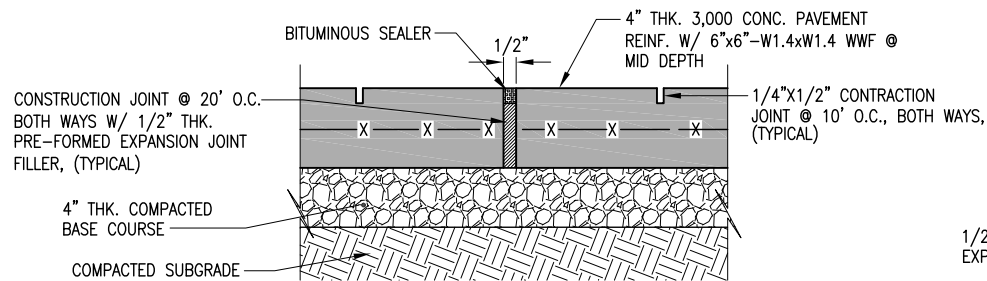


7B FRONT ELEVATION
NOT TO SCALE

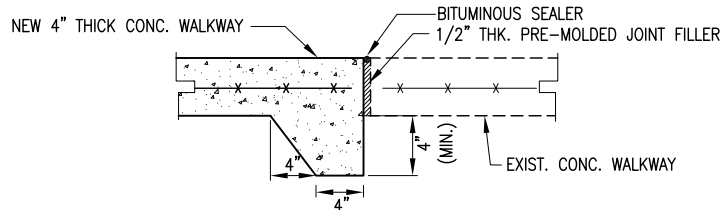


7A PLAN
NOT TO SCALE

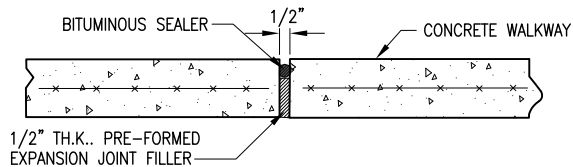
7 BIKE RAIL DETAIL
NOT TO SCALE



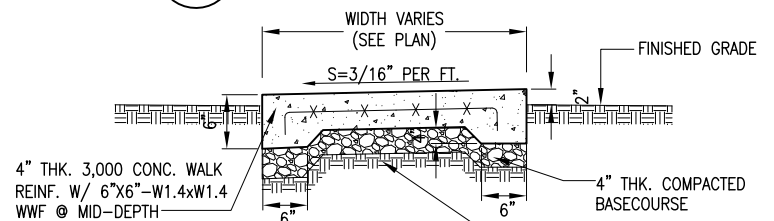
6 CONCRETE PAVEMENT DETAIL
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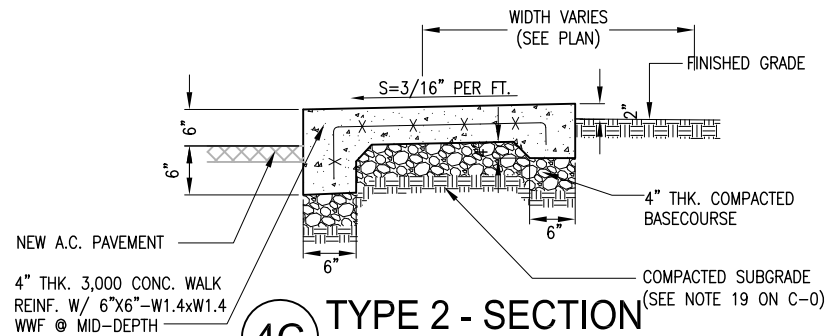
5 NEW CONC. WALKWAY AND EXIST. CONC. WALKWAY CONNECTION DETAIL
NOT TO SCALE



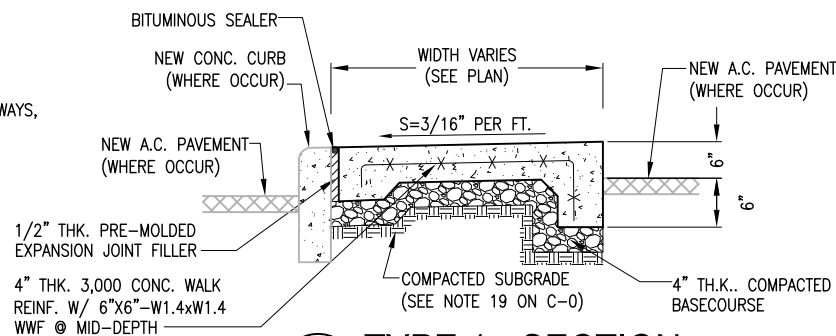
4E CONSTRUCTION JOINT DETAIL
NOT TO SCALE



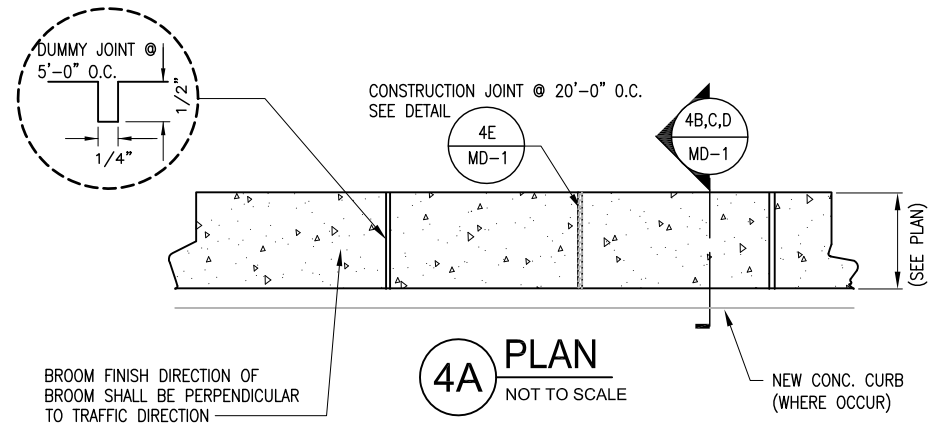
4D TYPE 3 - SECTION
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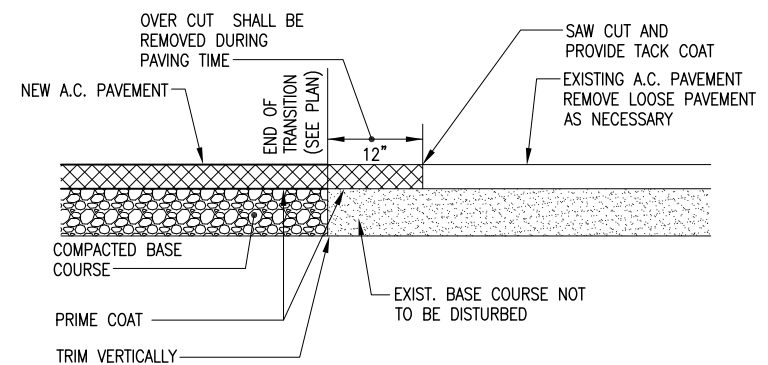
4C TYPE 2 - SECTION
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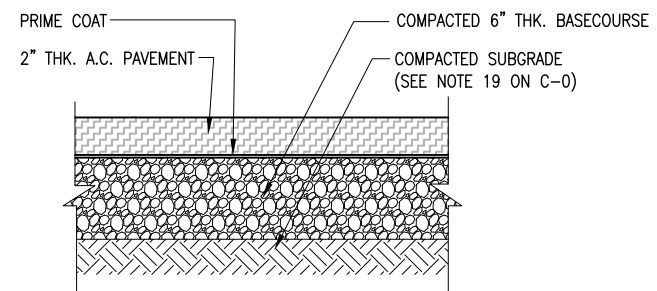
4B TYPE 1 - SECTION
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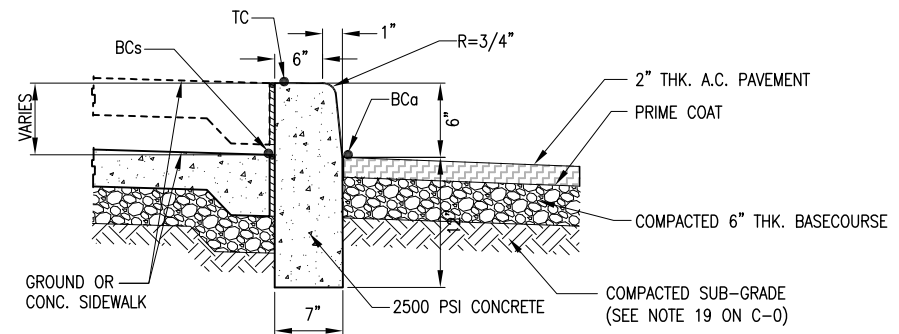
4 CONCRETE WALKWAY DETAILS
NOT TO SCALE



3 CONN. TO EXIST. A.C. PAVEMENT DETAIL
NOT TO SCALE



2 TYPICAL A.C. PAVEMENT SECTION
NOT TO SCALE



1 CONCRETE CURB DETAIL
NOT TO SCALE

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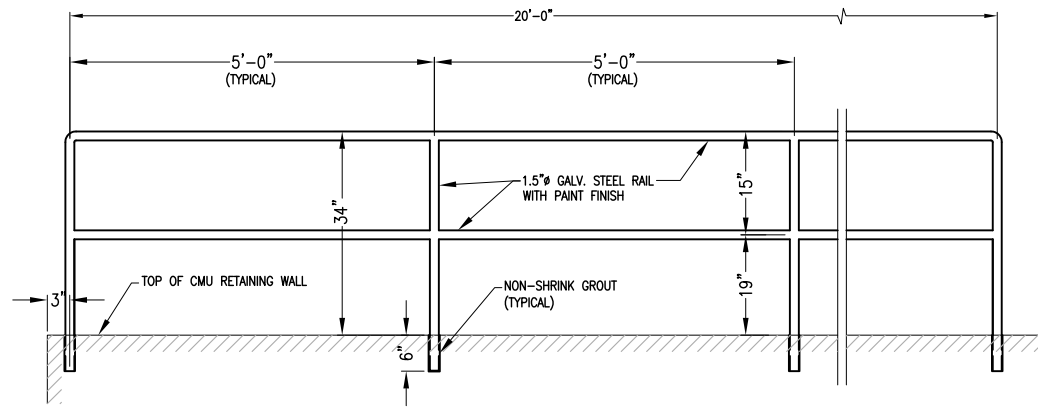
Project:
GCC
BLDG 100 RENOVATION

Title:
MISCELLANEOUS DETAILS

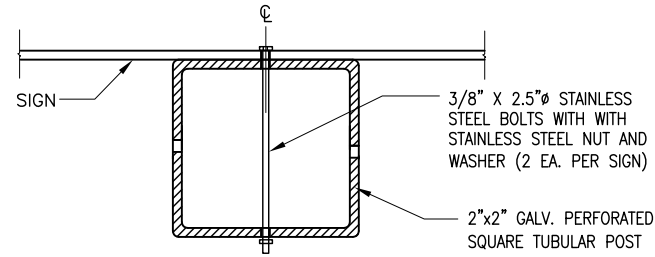
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Date: 20 JUNE 2013
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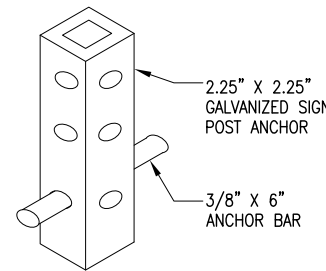
7 HANDRAIL DETAIL
NOT TO SCALE



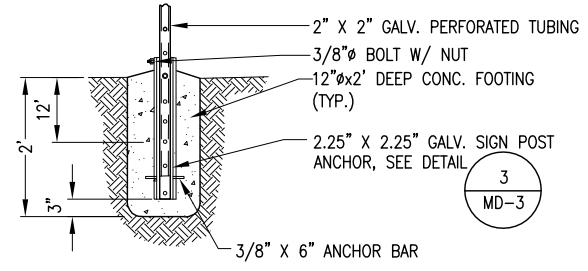
4 SIGN MOUNTING DETAIL
NOT TO SCALE

NOTES:

1. GALV. TUBE EMBEDDED IN CONCRETE SHALL BE DIPPED IN BITUMINOUS MATERIAL.
2. CROWN TOP OF CONCRETE FOOTING TO DRAIN WATER AWAY FROM POST.



2B SIGN POST
NOT TO SCALE

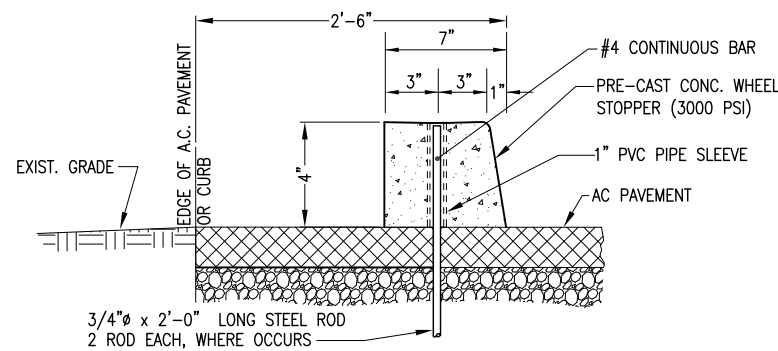


2A FOOTING
NOT TO SCALE

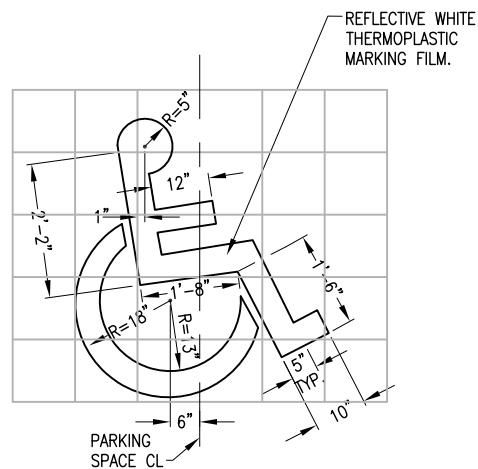
2 SIGN FOOTING DETAIL
NOT TO SCALE

NOTE:

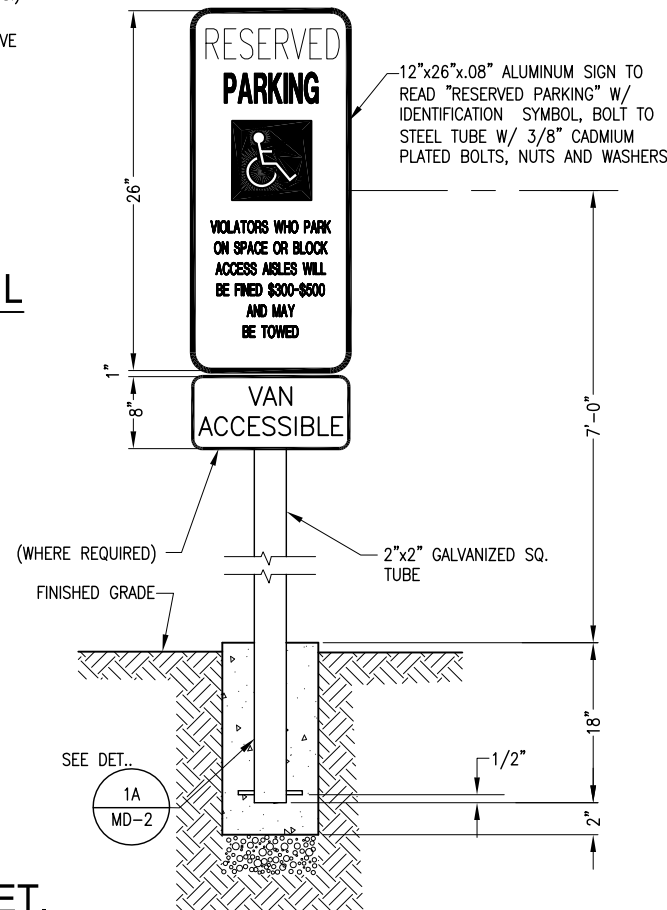
1. SIZE PAINT, COLOR & DIMENSIONS OF SIGNS PER DPW STANDARDS. AND IN ACCORDANCE WITH STD. HIGHWAY SIGNS ADOPTED BY THE U.S. DEPT. OF TRANSPORTATION AS SPECIFIED IN THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD); (LATEST EDITION)



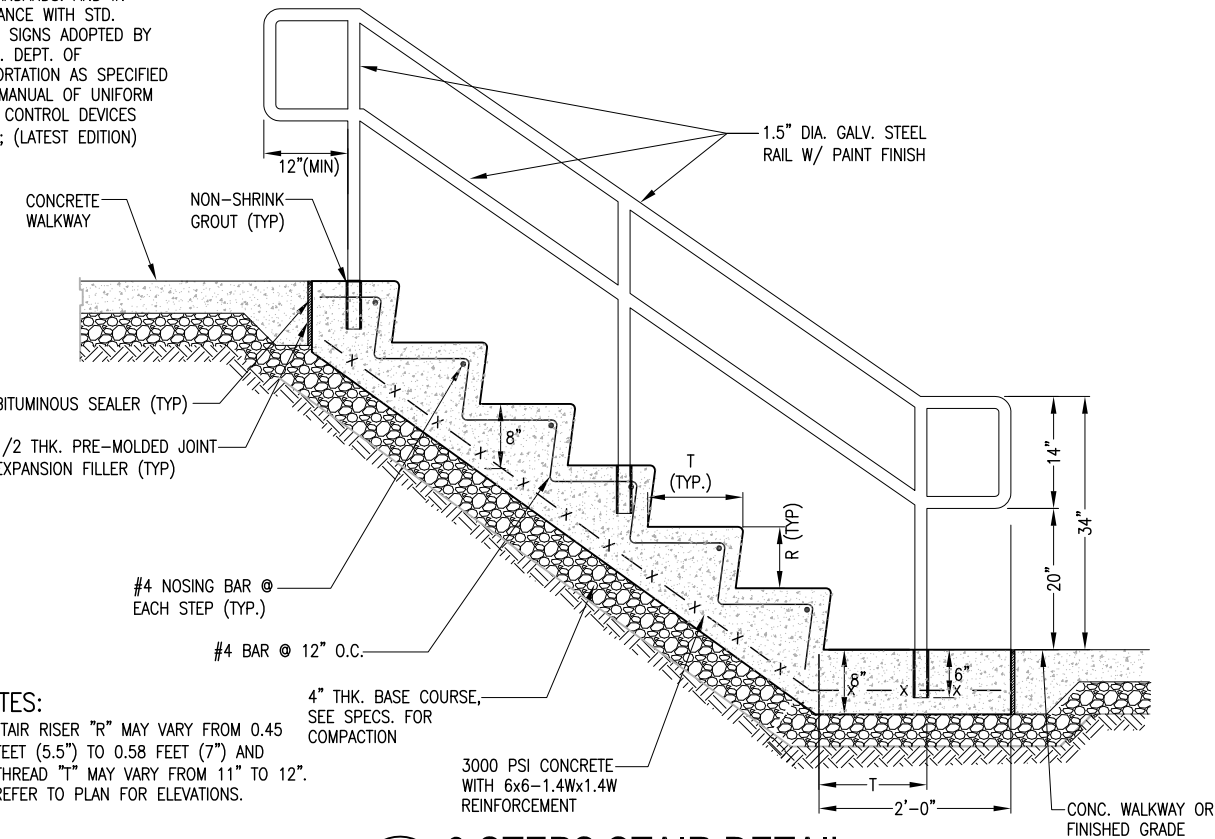
6 CONC. WHEEL STOPPER DETAIL
NOT TO SCALE



5 HANDICAP PAVEMENT MARKING DET.
NOT TO SCALE



3 RESERVED PARKING SIGN/POST DETAIL
NOT TO SCALE



1 6-STEPS STAIR DETAIL
NOT TO SCALE

NOTES:

1. STAIR RISER "R" MAY VARY FROM 0.45 FEET (5.5") TO 0.58 FEET (7") AND THREAD "T" MAY VARY FROM 11" TO 12".
2. REFER TO PLAN FOR ELEVATIONS.

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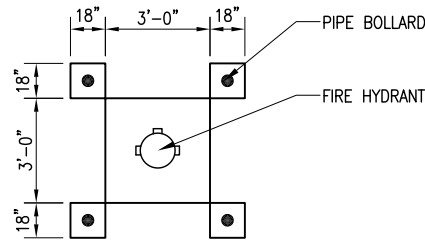
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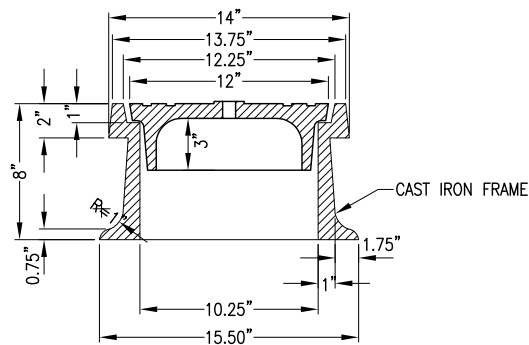
MD-3

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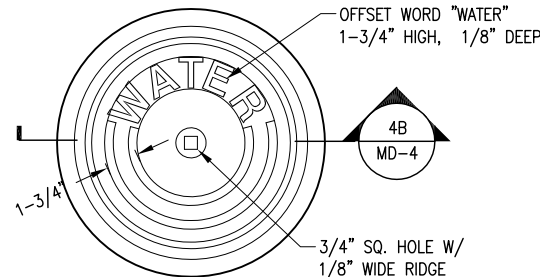
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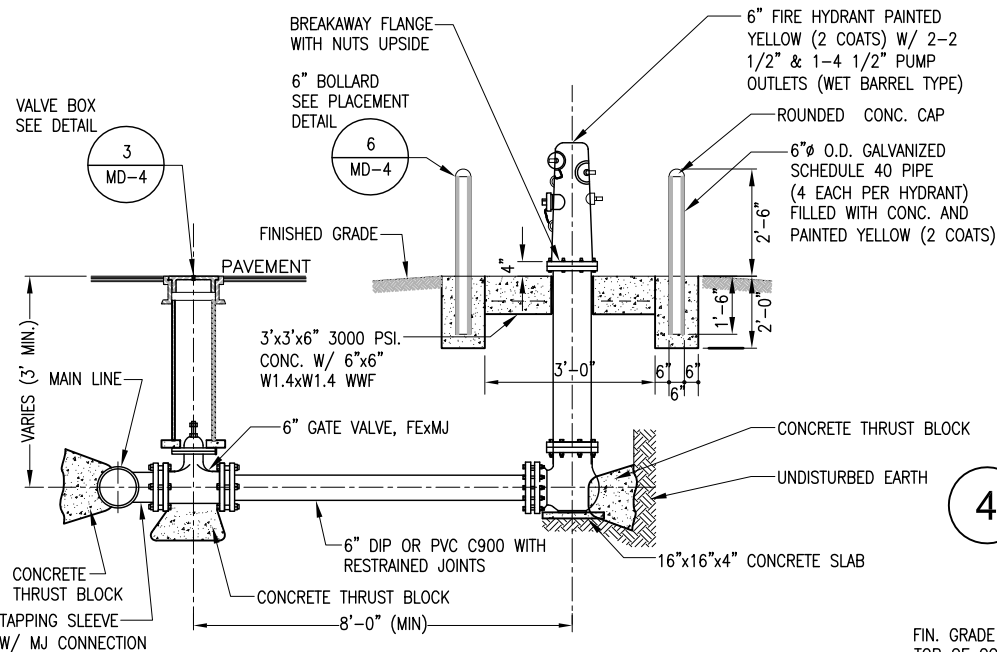
7 TYPICAL BOLLARD LAYOUT
NOT TO SCALE



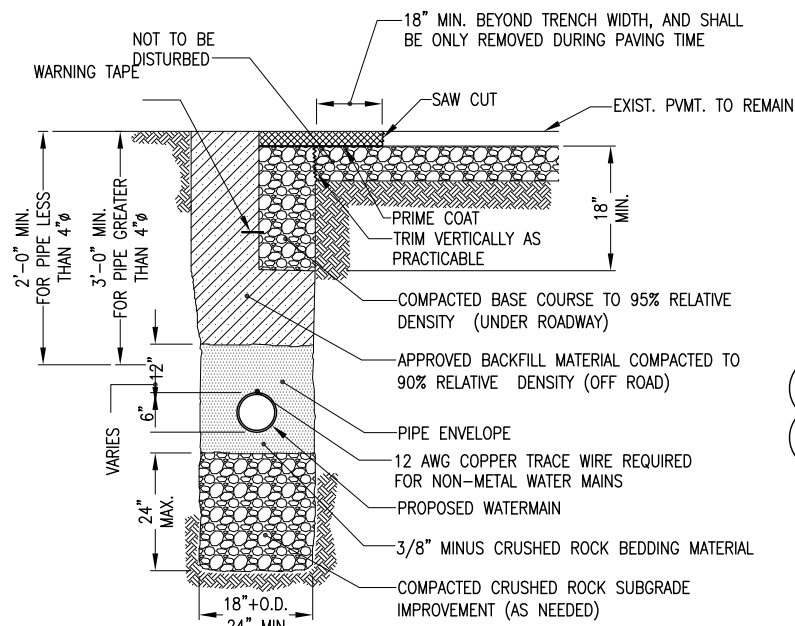
4B SECTION
NOT TO SCALE



4A PLAN
NOT TO SCALE

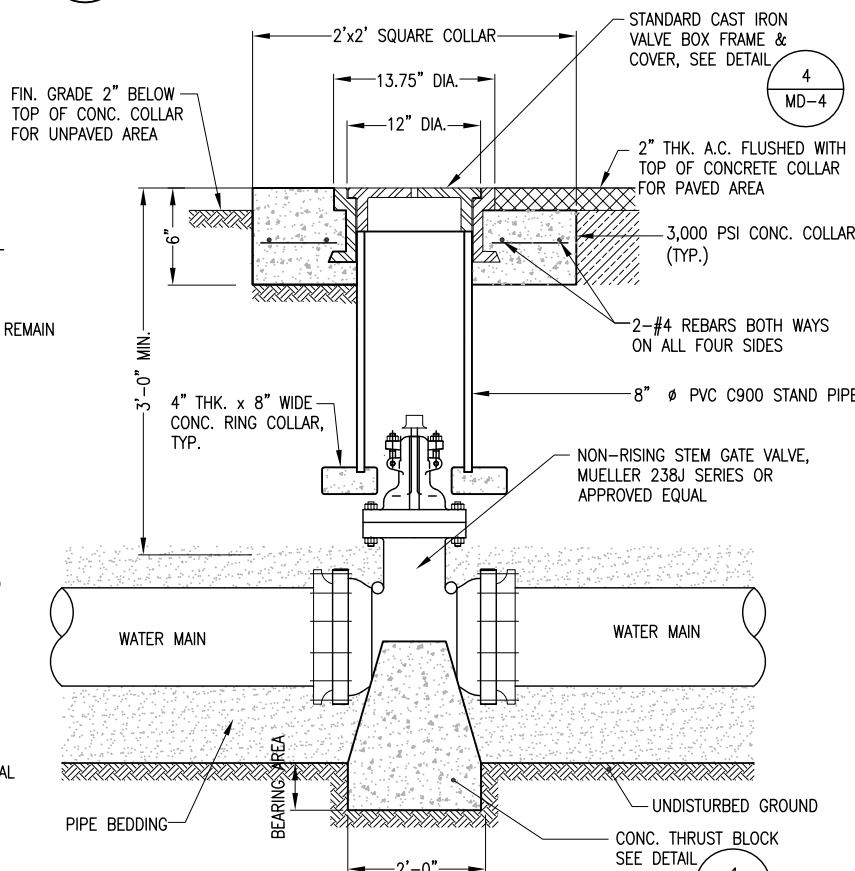


6 FIRE HYDRANT ASSEMBLY DETAIL
NOT TO SCALE



5 WATERLINE TRENCH DETAIL
NOT TO SCALE

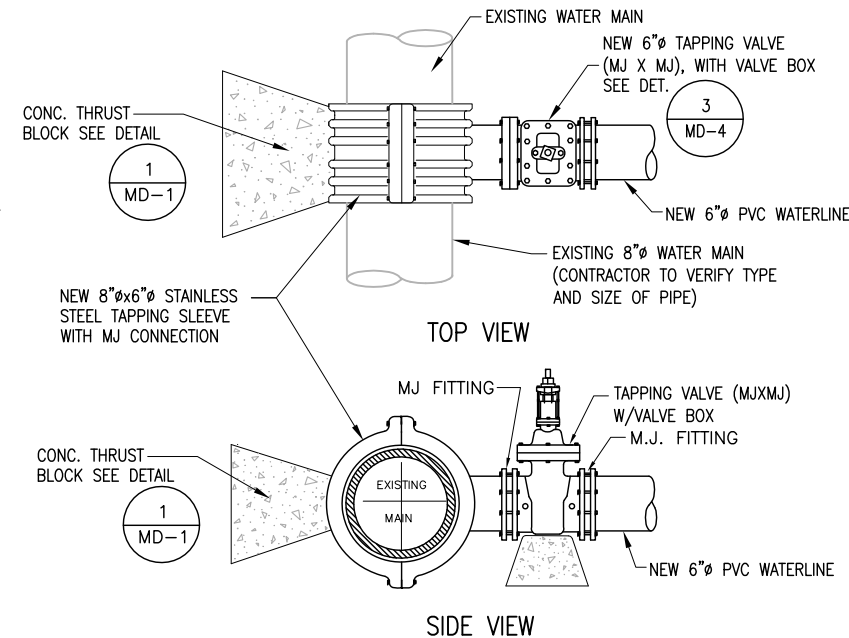
4 VALVE BOX FRAME AND COVER DETAIL
NOT TO SCALE



3 VALVE BOX DETAIL
NOT TO SCALE

TAPPING NOTES:

1. WHEN TAPPING MAIN IS WET TAPPED, THE BRANCH MAIN MUST BE AT LEAST ONE SIZE SMALLER THAN THE MAIN. OTHERWISE, CUT-IN CONNECTION IS REQUIRED, UNLESS OTHERWISE APPROVED BY GWA.
2. CONTRACTOR SHALL VERIFY LOCATION, SIZE, MATERIAL, AND DEPTH OF THE EXISTING WATER MAIN BEFORE TAPPING. TAPPING SHALL BE PERFORMED ONLY WITH THE PRESENCE OF A GWA INSPECTOR.
3. TAPPING SLEEVE MUST BE 24" (MINIMUM) SEPARATION FROM ANY BELL, COUPLING, VALVE, FITTING, OR ANOTHER TAPPING.
4. ALL CONNECTION TO THE EXISTING MAIN SHALL BE MADE AFTER THE NEW WATER MAIN PASSED THE REQUIRED TESTS AND APPROVED BY GWA IN THE PRESENCE OF AUTHORIZED GWA REPRESENTATIVE.
5. ALL FITTINGS SHALL BE SWABBED WITH CHLORINE SOLUTION OF 50 PPM (MG/L) MINIMUM CONCENTRATION.
6. ALL NUTS AND BOLTS MUST BE STAINLESS STEEL TYPE 304 OR 316.
7. ALL BOLTS, NUTS, OR END OF MECHANICAL JOINT FITTINGS SHALL NOT BE IN CONTACT WITH CONCRETE.



2 CONNECTION TO EXISTING WATERLINE
NOT TO SCALE

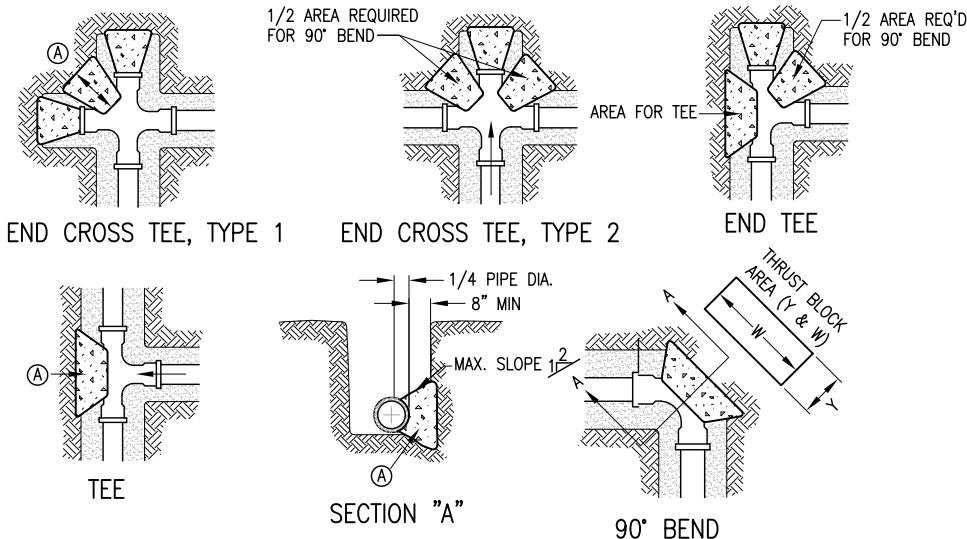
NOTES:

1. TABLE IS BASED ON 2000#/SQ. FT. SOIL. IF CONDITIONS ARE FOUND TO INDICATE SOIL BEARING IS LESS, THE AREAS SHALL BE INCREASED ACCORDINGLY.
2. AREAS FOR PIPE LARGER THAN 18" SHALL BE CALCULATED.
3. CONCRETE SHALL HAVE A MINIMUM COMPRESSION STRENGTH OF 2500 PSI.
4. THRUST BLOCK IS TO EXTEND TO UNDISTURBED SOIL.
5. SIZE MAY BE DECREASED FOR LESSER DEGREE BENDS AS DETERMINED BY ENGINEER.
6. KEEP CONCRETE CLEAR OF M.J. OR BELL AND SPIGOT JOINTS.
7. BLOCK IN A SIMILAR MANNER AT TEES, HYDRANTS, PLUG OR OTHER LOCATIONS AS REQUIRED.
8. WHEN NECESSARY ADDITIONAL THRUST RESTRAINT METHODS MAY BE USED, SUCH AS MECHANICAL JOINT RESTRAINTS, TIE-RODS RECOMMENDATIONS) OR OTHER APPROVED METHODS.

PIPE SIZE	WATER PIPE	
	TEE, DEAD END AND 90° BEND	45° AND 22 1/2° BENDS
4" & LESS	3 SQ. FEET	3 SQ. FEET
6"	4 SQ. FEET	3 SQ. FEET
8"	6 SQ. FEET	3 SQ. FEET
10"	9 SQ. FEET	5 SQ. FEET
12"	13 SQ. FEET	7 SQ. FEET
16"	23 SQ. FEET	12 SQ. FEET
18"	29 SQ. FEET	15 SQ. FEET

CONSTRUCTION KEY NOTES:

- A. LENGTH "Y & W" AS REQUIRED TO OBTAIN BEARING AREA AGAINST UNDISTURBED SOIL.
- B. MINIMUM THRUST BLOCK AREA REQUIREMENTS FOR (Y & W) AS FOLLOWS:



1 CONCRETE THRUST BLOCK SCHEDULE
NOT TO SCALE

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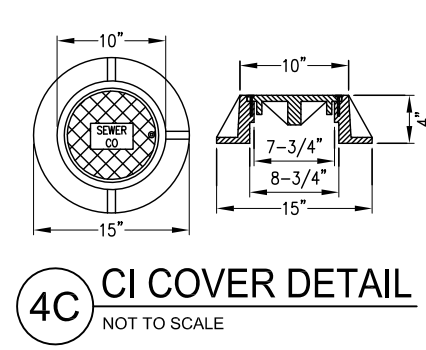
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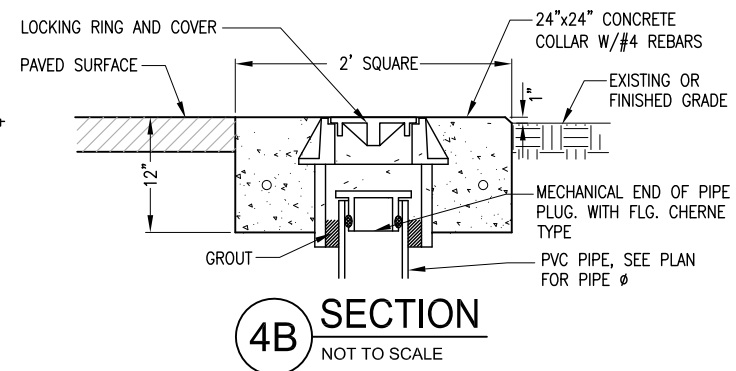
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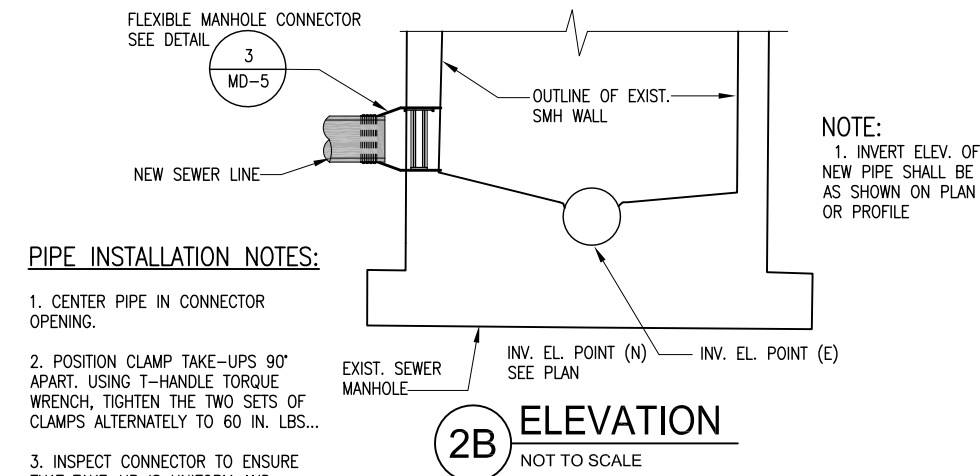
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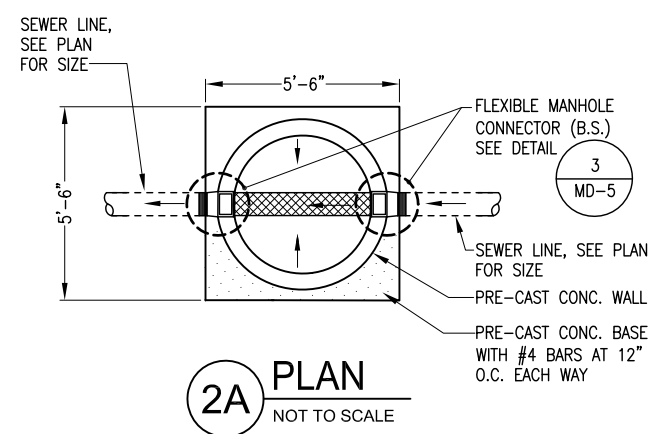


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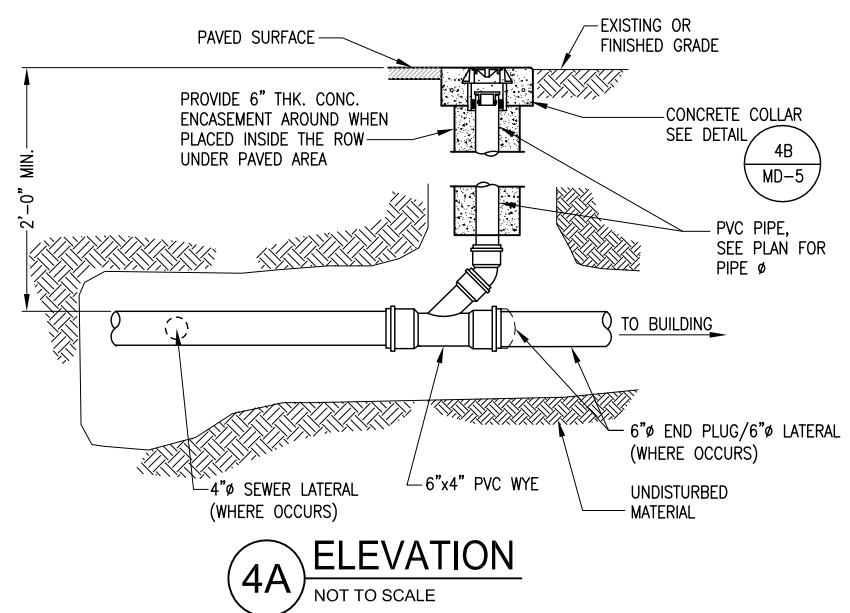


PIPE INSTALLATION NOTES:

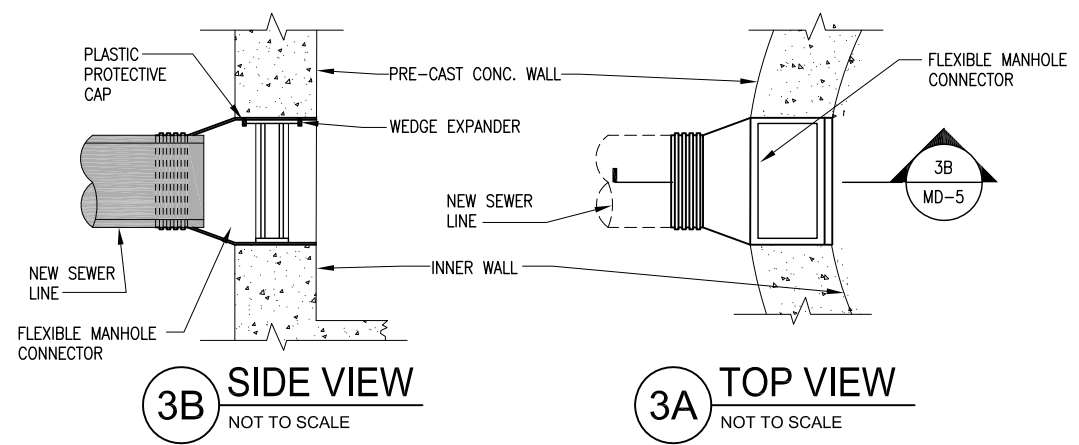
1. CENTER PIPE IN CONNECTOR OPENING.
2. POSITION CLAMP TAKE-UPS 90° APART. USING T-HANDLE TORQUE WRENCH, TIGHTEN THE TWO SETS OF CLAMPS ALTERNATELY TO 60 IN. LBS...
3. INSPECT CONNECTOR TO ENSURE THAT TAKE-UP IS UNIFORM AND RUBBER IS EVENLY COMPRESSED AROUND PIPE.
4. ON MINIMUM PIPE O.D. INSTALLATIONS, LIFT THE RUBBER UP UNDERNEATH THE PIPE CLAMP SCREW SO THAT THE CONNECTOR CONTACTS THE BOTTOM SURFACE OF THE PIPE WHILE THE PIPE CLAMP SCREW IS BEING TIGHTENED. APPLICATION OF PIPE LUBRICATION ON UNDERSIDE OF THE CLAMP WILL ALSO HELP ASSURE THAT AN EVEN CONTRACTION OF RUBBER IS MAINTAINED THROUGHOUT THE CLAMPING AREA.
5. AFTER THE PIPE CLAMP HAS BEEN TIGHTENED DOWN FIRMLY, MOVE THE PIPE HORIZONTALLY AND/OR VERTICALLY TO BRING IT TO GRADE.



2 CONNECTION TO EXIST. SEWER MANHOLE
NOT TO SCALE

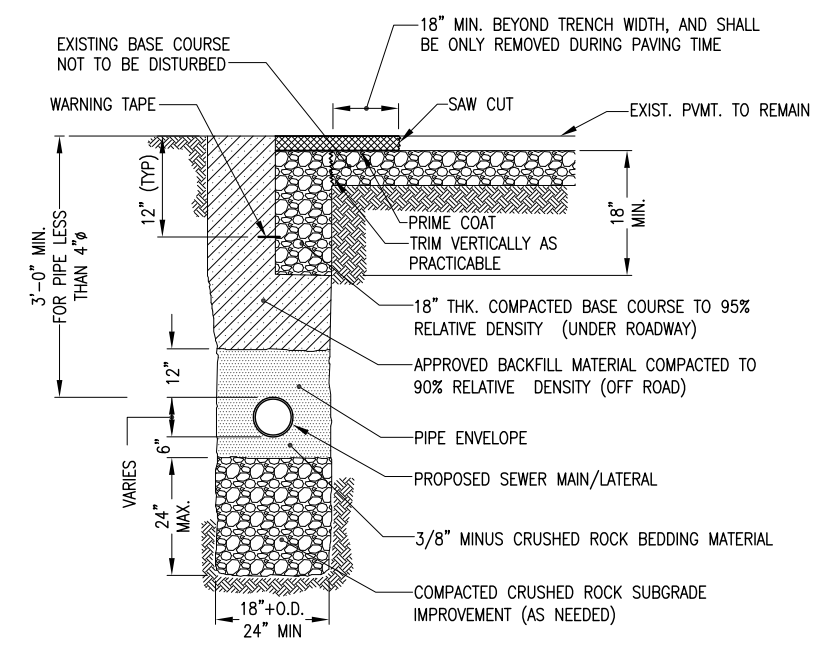


4 SEWER LATERAL/CLEANOUT DETAIL
NOT TO SCALE



3A TOP VIEW: NOT TO SCALE

3 FLEXIBLE SMH CONNECTOR DETAIL
NOT TO SCALE



1 SEWER LINE TRENCH DETAIL
NOT TO SCALE

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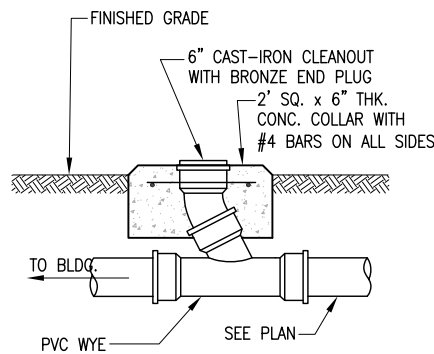
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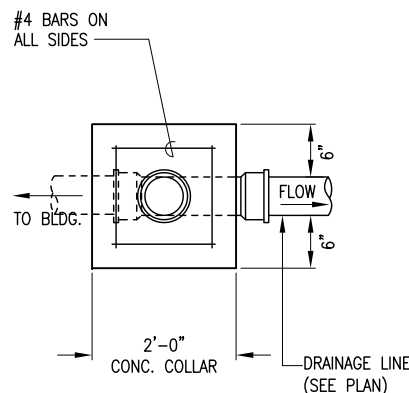
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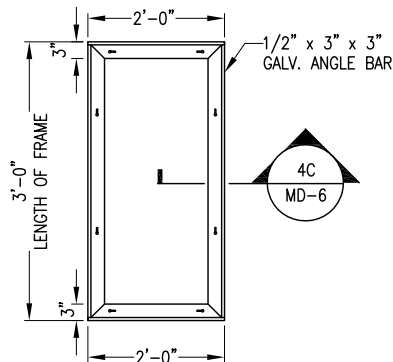
5B ELEVATION
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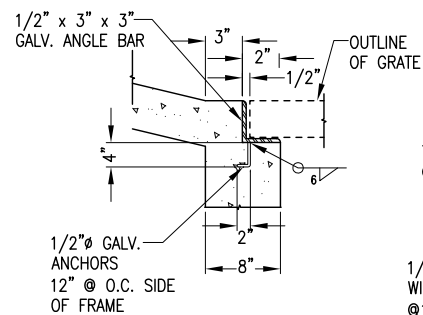
5A PLAN
NOT TO SCALE

5 STORM CLEAN-OUT DETAIL
NOT TO SCALE

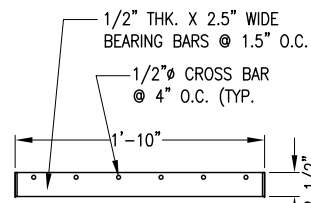
- NOTES:**
1. GRATINGS, FRAMES, BOLTS, & MISC. INSERTS SHALL BE HOT DIPPED GALV. AFTER FABRICATION. ALL DIMENSIONS ARE FINISHED INCLUDING GALVANIZING.
 2. ALL STRUCTURAL STEEL SHALL CONFORM TO ASTM A-36.
 3. ALL WELDING REQ'D. FABRICATED GRATES SHALL BE ACCOMPLISHED BY A CERTIFIED WELDER & WORK SHALL BE IN ACCORDANCE W/ THE REQUIREMENTS OF AWS STANDARDS & AISC SPECS.
 4. METAL GRATE ASSEMBLY SHALL HAVE A NET AREA OPENING OF NOT LESS THAN 2.80 SQUARE FEET.



4D FRAME PLAN
NOT TO SCALE

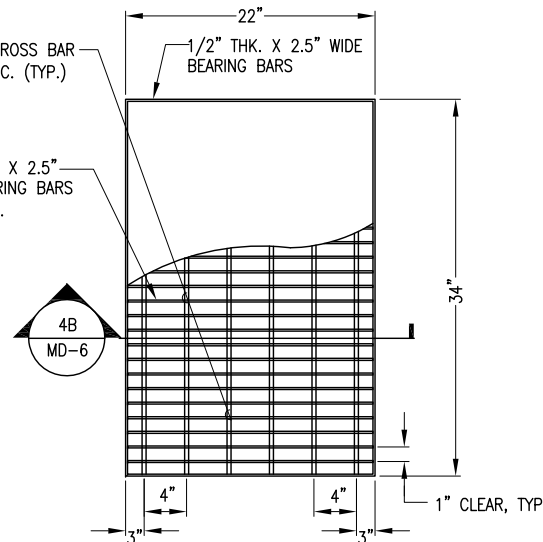


4C SECTION
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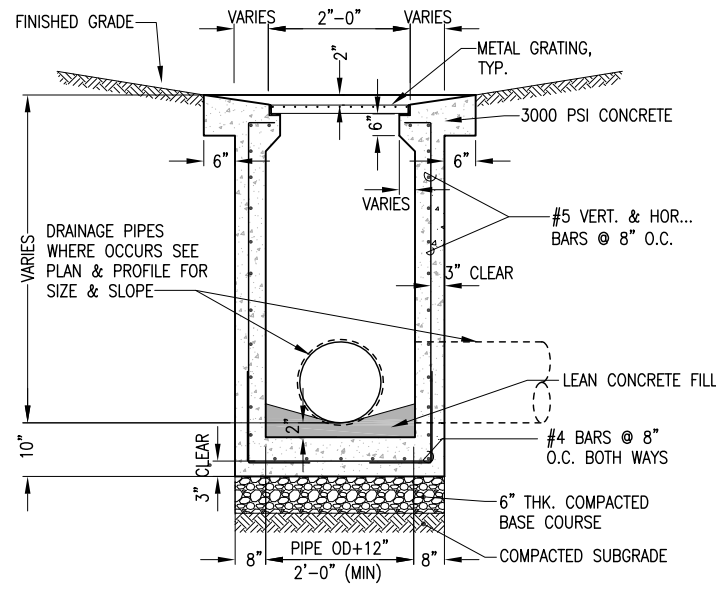


4B SECTION
NOT TO SCALE

4 METAL GRATING DETAIL
NOT TO SCALE

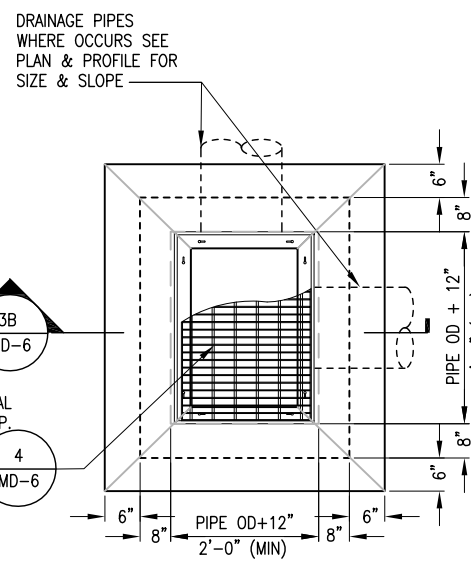


4A PLAN
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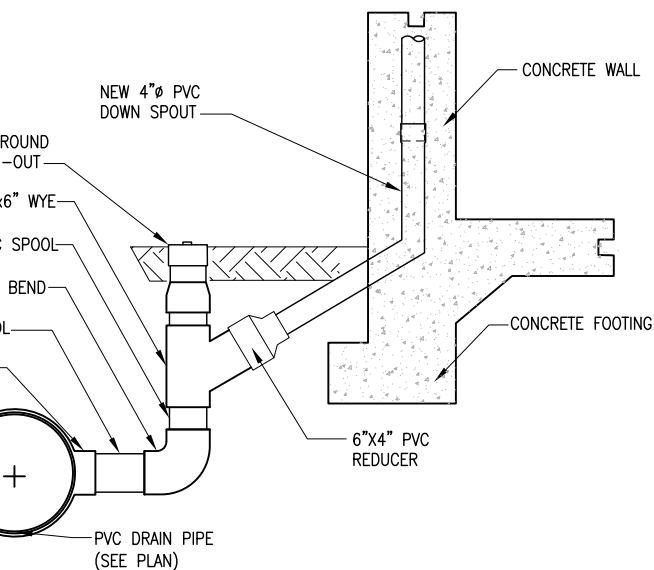


3B SECTION
NOT TO SCALE

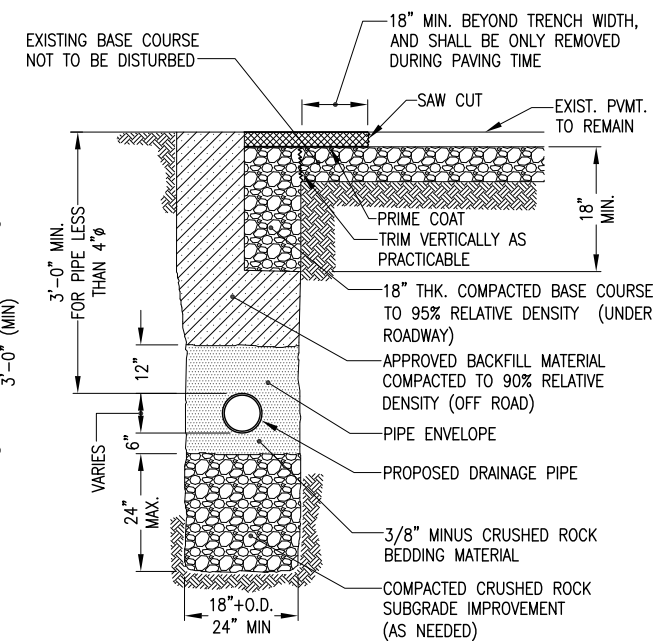
3 CATCH BASIN DETAIL
NOT TO SCALE



3A PLAN
NOT TO SCALE



2 DOWNSPOUT TO DRAIN PIPE CONN. DETAIL
NOT TO SCALE



1 DRAINAGE LINE TRENCH DETAIL
NOT TO SCALE

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