

Project Plans

A
APPENDIX

CONTRACT DRAWINGS FOR CITY OF NEWMAN



WWTRF MCPIKE 1 RECLAMATION IMPROVEMENTS AND NEWMAN INFLUENT TRUNK SEWER

CONFORMED SET

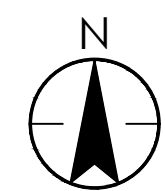
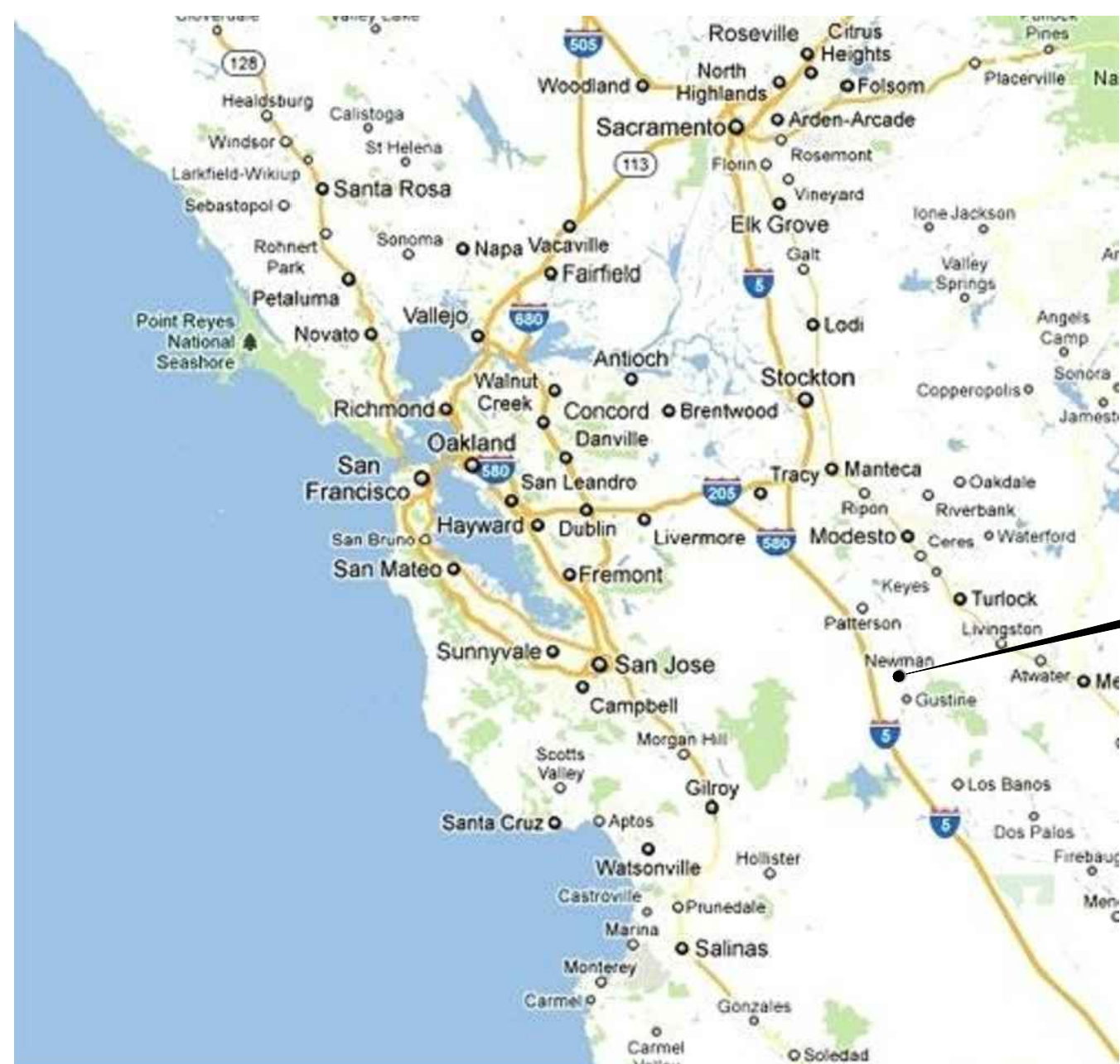
OCTOBER, 2022

NOTE:
EACH PROJECT HAS ITS OWN SEPARATE
DRAWING INDEX AND SHEET COUNT



CONTRACT DRAWINGS FOR CITY OF NEWMAN WWTRF MCPIKE 1 RECLAMATION IMPROVEMENTS

AUGUST, 2019

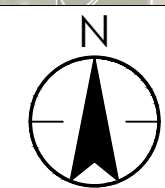
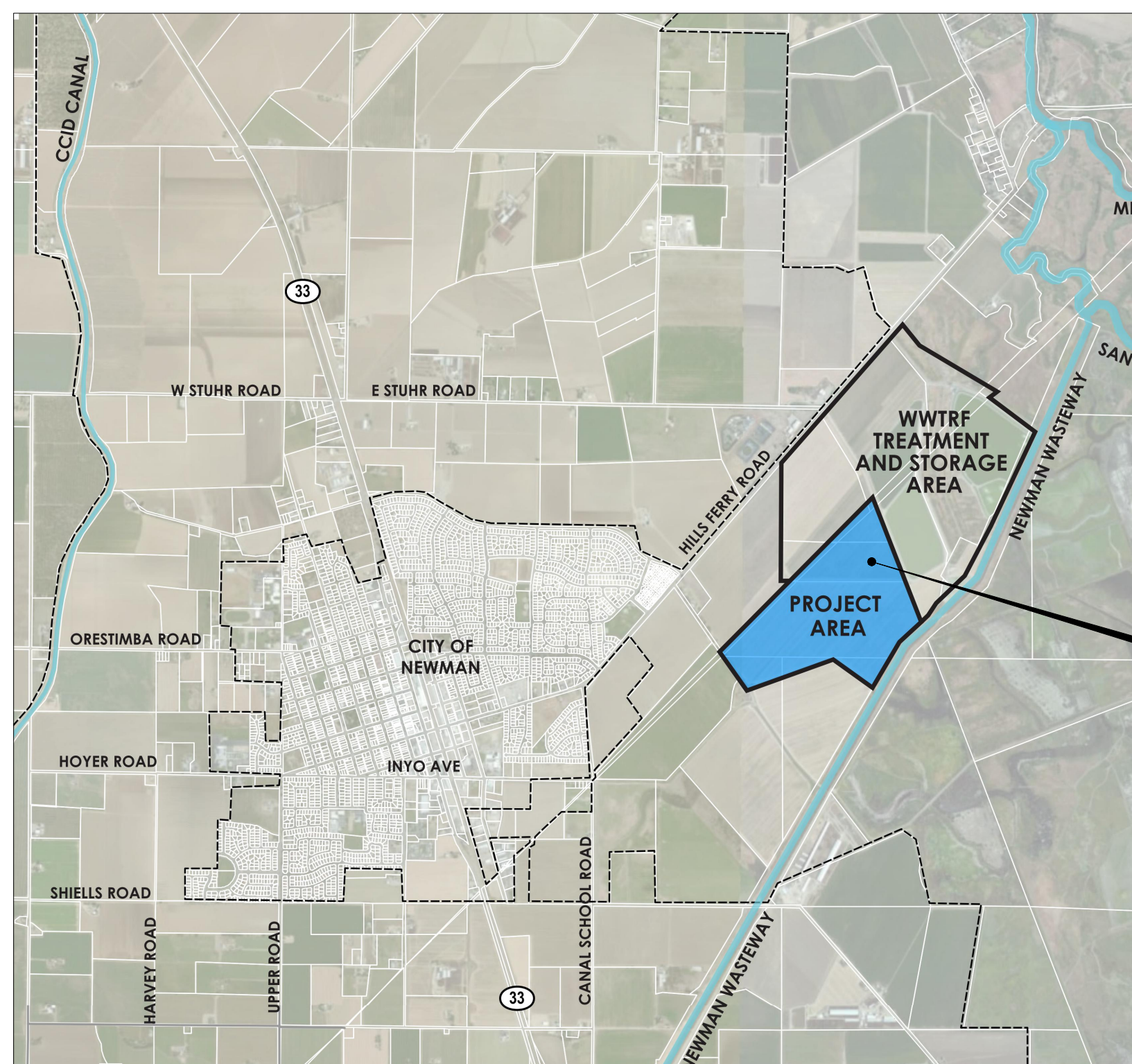


VICINITY MAP
SCALE: NTS

CITY OF NEWMAN

DRAWING INDEX		
GENERAL:		
DRAWING NO.	SHEET NO.	DESCRIPTION
G00	1	COVER SHEET
G01	2	PROJECT TITLE, VICINITY AND LOCATION MAP, DRAWING INDEX AND DESIGN CRITERIA
G02	3	ABBREVIATIONS, AREA DESIGNATIONS, LEGENDS, PIPING SYSTEM AND SYMBOLS
G03	4	KEY PLAN
G04	5	GENERAL NOTES, CONSTRUCTION STAGING AREA AND ACCESS ROAD
DEMOLITION		
DRAWING NO.	SHEET NO.	DESCRIPTION
D01	6	EXISTING 12" SE PIPE DEMOLITION - PLAN AND PROFILE
D02	7	EXISTING MCPIKE 1-1 IRRIGATION PIPE - DEMOLITION PLAN
D03	8	IRRIGATION PUMP STATION 2 DEMOLITION
CIVIL:		
DRAWING NO.	SHEET NO.	DESCRIPTION
C01	9	18" PRESSURIZED IRRIGATION PIPE - PLAN AND PROFILE STA 0+20 TO STA 11+00
C02	10	18" PRESSURIZED IRRIGATION PIPE - PLAN AND PROFILE STA 11+00 TO STA 22+00
C03	11	18" PRESSURIZED IRRIGATION PIPE - PLAN AND PROFILE STA 22+00 TO STA 33+00
C04	12	18" PRESSURIZED IRRIGATION PIPE - PLAN AND PROFILE STA 33+00 TO STA 44+50
C05	13	18" PRESSURIZED IRRIGATION PIPE - PLAN AND PROFILE STA 44+50 TO STA 49+18.85 AND 18" WELL DISCHARGE - PLAN AND PROFILE
C06	14	21" MCPIKE 1-1 IRRIGATION PIPE - PLAN AND PROFILE STA 0+20 TO STA 9+25
C07	15	24" MCPIKE 1-3 IRRIGATION PIPE - PLAN AND PROFILE 1 STA 0+20 TO STA 9+50
C08	16	24" MCPIKE 1-3 IRRIGATION PIPE - PLAN AND PROFILE 2 STA 9+50 TO STA 17+50
C09	17	24" MCPIKE 1-3 IRRIGATION PIPE - PLAN AND PROFILE 3 STA 17+50 TO STA 28+00
C10	18	IRRIGATION PUMP STATION 2 SITE PLAN
C11	19	MCPIKE DISTRIBUTION STRUCTURE - PLAN AND SECTION
C12	20	MISCELLANEOUS CIVIL DETAIL
C20	21	TYPICAL CIVIL DETAILS 1
C21	22	TYPICAL CIVIL DETAILS 2
STRUCTURAL:		
DRAWING NO.	SHEET NO.	DESCRIPTION
S01	23	TYPICAL STRUCTURAL NOTES 1
S02	24	TYPICAL STRUCTURAL NOTES 2
S03	25	TYPICAL STRUCTURAL DETAILS
MECHANICAL:		
DRAWING NO.	SHEET NO.	DESCRIPTION
M01	26	IRRIGATION PUMP STATION 2 - TOP PLAN
M02	27	IRRIGATION PUMP STATION 2 - SECTION AND DETAILS
M03	28	TYPICAL MECHANICAL DETAIL 1
M04	29	TYPICAL MECHANICAL DETAIL 2
M05	30	TYPICAL MECHANICAL DETAIL 3

DRAWING INDEX		
ELECTRICAL:		
DRAWING NO.	SHEET NO.	DESCRIPTION
E01	31	ELECTRICAL SYMBOLS AND ABBREVIATIONS
E02A	32	ELECTRICAL SINGLE LINE, DEMO/MODIFICATION AND LOAD CALCULATIONS
E02B	33	ELECTRICAL ELEVATIONS
E03	34	VFD ELEMENTARY WIRING DIAGRAM
E04	35	TYPICAL ELECTRICAL DETAILS 1
E05	36	TYPICAL ELECTRICAL DETAILS 2
E06	37	TYPICAL ELECTRICAL DETAILS 3
E10	38	OVERALL ELECTRICAL SITE PLAN
E11	39	OVERALL ELECTRICAL SITE PLAN
E12	40	IRRIGATION PUMP STATION 2 ELECTRICAL PLAN
E13	41	IRRIGATION PUMP STATION 2 GROUNDING PLAN



LOCATION MAP
SCALE: NTS

PROJECT AREA
SEE DWG G03

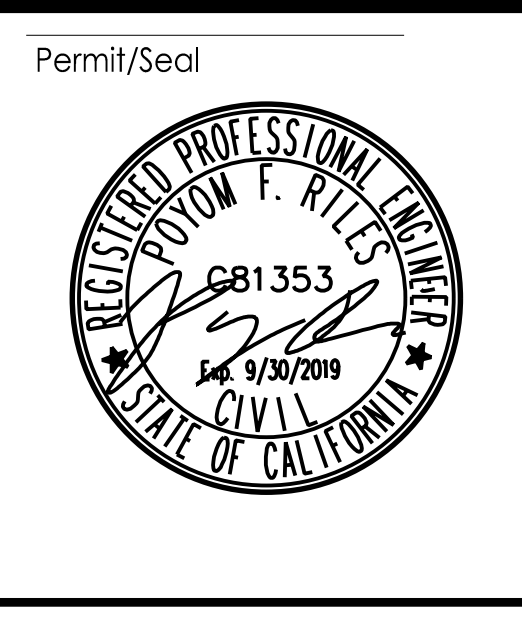
DESIGN CRITERIA		
EFFLUENT PUMP STATION 2		
PUMPS	NUMBER	2
PUMPS, EACH	HP	20
CAPACITY 1 PUMP, WELL ON, RESERVOIR FULL	GPM	2330
CAPACITY 1 PUMP, WELL ON, RESERVOIR EMPTY	GPM	2030
CAPACITY 1 PUMP, WELL OFF, RESERVOIR FULL	GPM	2400
CAPACITY 1 PUMP, WELL OFF, RESERVOIR EMPTY	GPM	2100
CAPACITY 2 PUMP, WELL ON, RESERVOIR FULL	GPM	3620
CAPACITY 2 PUMP, WELL ON, RESERVOIR EMPTY	GPM	3100
CAPACITY 2 PUMP, WELL OFF, RESERVOIR FULL	GPM	3720
CAPACITY 2 PUMP, WELL OFF, RESERVOIR EMPTY	GPM	3220
<ol style="list-style-type: none"> CAPACITIES ARE TO MCPIKE FIELDS 1-1 AND 1-3 TO THE MOST REMOTE IRRIGATION HEADER. CAPACITY TO IRRIGATION HEADERS CLOSER TO THE DISTRIBUTION STRUCTURE WILL BE HIGHER. PUMP CAPACITIES TO MCPIKE FIELD 1-2 CANNOT OCCUR CONCURRENTLY WITH PUMPING FROM THE WELL AND WILL INCREASE IN CLOSE PROXIMITY TO THE PUMP STATION. 		
WELL PUMP DISTRIBUTION		
CAPACITY OF WELL, 0 EFFLUENT PUMPS	NUMBER	1
CAPACITY OF WELL, 0 EFFLUENT PUMPS	GPM	1500
CAPACITY OF WELL TO THE MOST REMOTE IRRIGATION HEADER FROM THE DISTRIBUTION STRUCTURE. CAPACITY IS DEPENDENT ON THE WELL PUMP AND WILL INCREASE IN CLOSE PROXIMITY TO THE DISTRIBUTION STRUCTURE.		

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Client/Project Logo

Client/Project
CITY OF NEWMAN

WWTRF MCPIKE 1
RECLAMATION IMPROVEMENTS

NEWMAN, CALIFORNIA

File Name: X05593-G01 AND COVER RG PR CA 2019.08.02
Dwn. Dsgn. Chkd. YYYY.MM.DD

Title

PROJECT TITLE
VICINITY AND LOCATION MAP,
DRAWING INDEX, AND DESIGN CRITERIA

Project No. Scale
2002005593 NTS

Revision Sheet Drawing No.
2 of 41 G01

LEGEND

	EXISTING EDGE OF PAVEMENT
	NEW FACILITIES
	EXISTING FACILITIES
	NEW CONTOUR
	EXISTING CONTOUR
	NEW EMBANKMENT
	NEW SPOT ELEVATION
	EXISTING SPOT ELEVATION
	TREE
	SLOPE (PROFILE)
	HORIZONTAL DIRECTION
	EXISTING POWER POLE
	PROPERTY LINE
	DIAMETER
	NEW PIPELINE
	NEW PIPELINE
	EXST PIPELINE
	EXST PIPELINE
	EXST PIPELINE
	EXST FENCE
	MANHOLE
	ITEM TO BE DEMOLISHED
	CONSTRUCTION EASEMENT
	INDICATE WHERE THRUST BLOCK REQUIRED AT JOINT
	INDICATE WHERE RESTRAINT REQUIRED AT JOINT

PIPING SYMBOLS

	GATE VALVE		PLUG VALVE
	CHECK VALVE		BUTTERFLY VALVE
	MECHANICAL JOINT OR BELL & SPIGOT FITTING		UNION
	STRAINER		CLEANOUT
	FLANGED FITTING		FLANGE X MJ ADAPTOR
	FLANGED COUPLING ADAPTER		GROOVED COUPLING
	FLEXIBLE COUPLING		WALL SLEEVE
	IRRIGATION HEADER		BELL RING PENETRATION

ABBREVIATIONS

AB	AGGREGATE BASE
AV	AIR VALVE
CAV	COMBINED AIR RELEASE VALVE
CONC	CONCRETE
CV	CHECK VALVE
CL	CENTER LINE
DIP	DUCTILE IRON PIPE
DWG	DRAWING
(E)	EXISTING
EJ	EXPANSION JOINT
EL	ELEVATION
ELB	ELBOW
EXIST	EXISTING
FC	FLEXIBLE COUPLING
FCA	FLEXIBLE COUPLING ADAPTER
FIN FG GR	FINISHED GRADE
FLG	FLANGE
GPM	GALLON PER MINUTE
GS	GALVANIZED STEEL
GSP	GALVANIZED STEEL POST
GV	GATE VALVE
HP	HORSE POWER, HIGH POINT
HORZ	HORIZONTAL
ID	INSIDE DIAMETER
IE	INVERT ELEVATION
INF	INFLUENT
INV	INVERT
IRR	IRRIGATION
MAG	MAGNETIC
MAX	MAXIMUM
MFR	MANUFACTURER
MH	MANHOLE
MIN	MINIMUM
MJ	MECHANICAL JOINT
MLV	MANUAL VALVE
(N)	NEW
OC	ON CENTER
OD	OUTSIDE DIAMETER

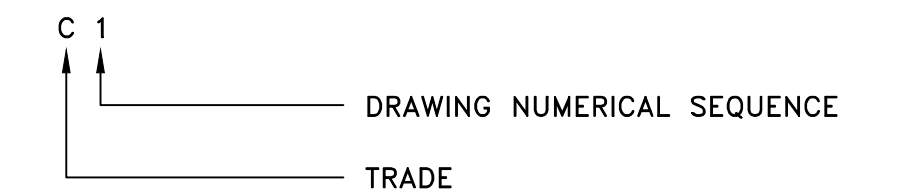
ABBREVIATIONS

PG	PRESSURE GAUGE
PIP	PLASTIC IRRIGATION PIPE
PP	PIPE PENETRATION, POWER POLE
PS	PIPE SUPPORT, PRESSURE SWITCH
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PT	POINT
PV	PLUG VALVE
QTY	QUANTITY
R	RESTRAINT, RIM, RADIUS
R&W	REMOVE & WASTE
RED	REDUCER
REQD	REQUIRED
S	SLOPE
SCH	SCHEDULE
SD	STORM DRAIN
SE	SECONDARY EFFLUENT
SF	SQUARE FOOT
SG	SLUICE GATE
SIM	SIMILAR
SOG	SLAB ON GRADE
SPEC, SPECS	SPECIFICATIONS
SQ	SQUARE
SS	SANITARY SEWER
SST	STAINLESS STEEL
STA	STATION
STL	STEEL
TOP	TOP OF PIPE
TW	TAILWATER
TYP	TYPICAL
W/O	WITHOUT
WS	WATERSTOP
WWTRF	WASTEWATER TREATMENT RECLAMATION FACILITY
VERT	VERTICAL

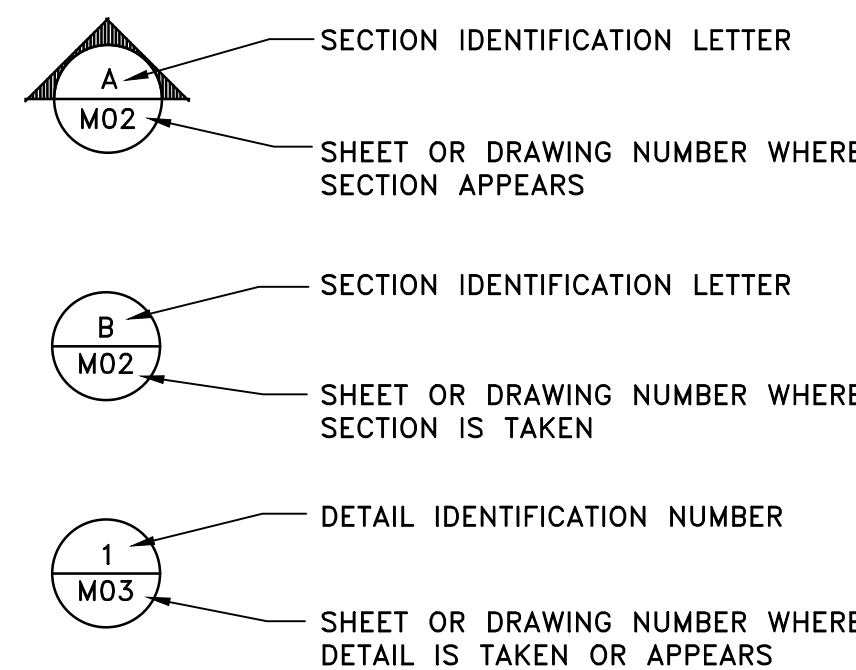
DRAWING NUMBERING SYSTEM

- THE DRAWINGS ARE SUBDIVIDED INTO BROAD TRADE SECTIONS AND HAVE THE FOLLOWING PREFIXES TO THEIR NUMBERS ACCORDING TO CATEGORY AND ARE BOUND IN THE FOLLOWING ORDER.

G	GENERAL
D	DEMOLITION
C	CIVIL
S	STRUCTURAL
M	MECHANICAL
E	ELECTRICAL
- THE DRAWINGS WITHIN THIS SET ARE NUMBERED PER THE FOLLOWING EXAMPLE:



CALLOUT SYMBOLS



HATCHING LEGEND

	NATIVE SOIL / ENGINEERED FILL		REGRADED DIRT ROAD
	CONCRETE (PLAN & SECTION)		CONSTRUCTION ENTRY/EXIT ACCESS ROADWAYS
	RIPRAP / AGGREGATE BASE		CONSTRUCTION STAGING AREA

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WWTRF MCPIKE 1
RECLAMATION IMPROVEMENTS

NEWMAN, CALIFORNIA

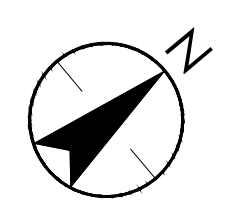
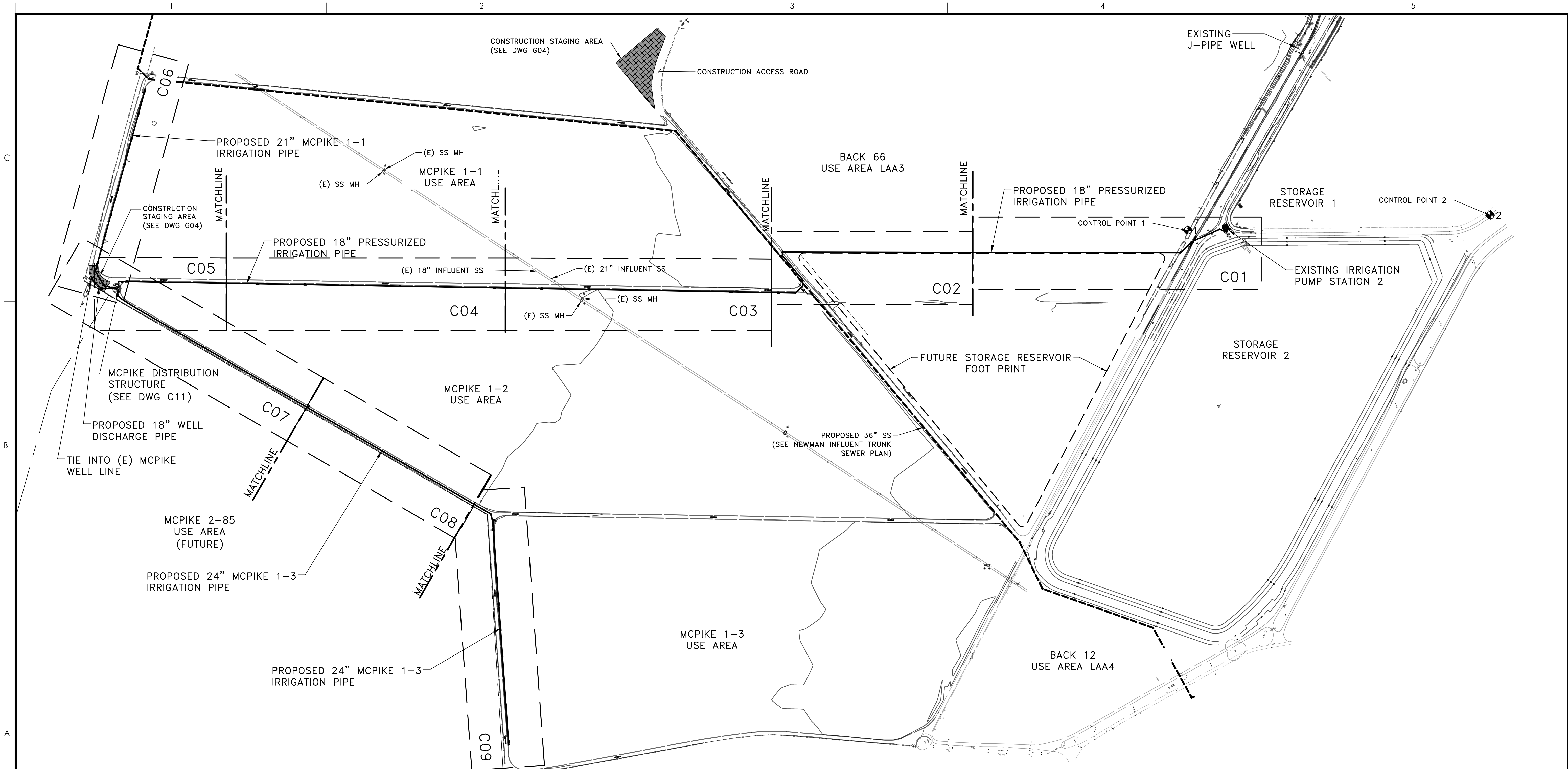
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Title

ABBREVIATIONS, LEGENDS,
PIPING SYSTEM, AND SYMBOLS

Project No. 2002005593	Scale NTS
Revision Sheet	Drawing No.

3 of 41 G02



KEY PLAN
SCALE: 1" = 200'

CONTROL POINT SCHEDULE				
PT. NO.	POINT DESCRIPTION	NORTHING	EASTING	ELEVATION
1	TEMPORARY SURVEY CONTROL MARKER	1941676.04	6419843.41	68.3200
2	TEMPORARY SURVEY CONTROL MARKER	1942670.44	6420597.15	78.1700

SEE ADDITIONAL SURVEY NOTES ON DRAWING G04.

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RECLAMATION IMPROVEMENTS

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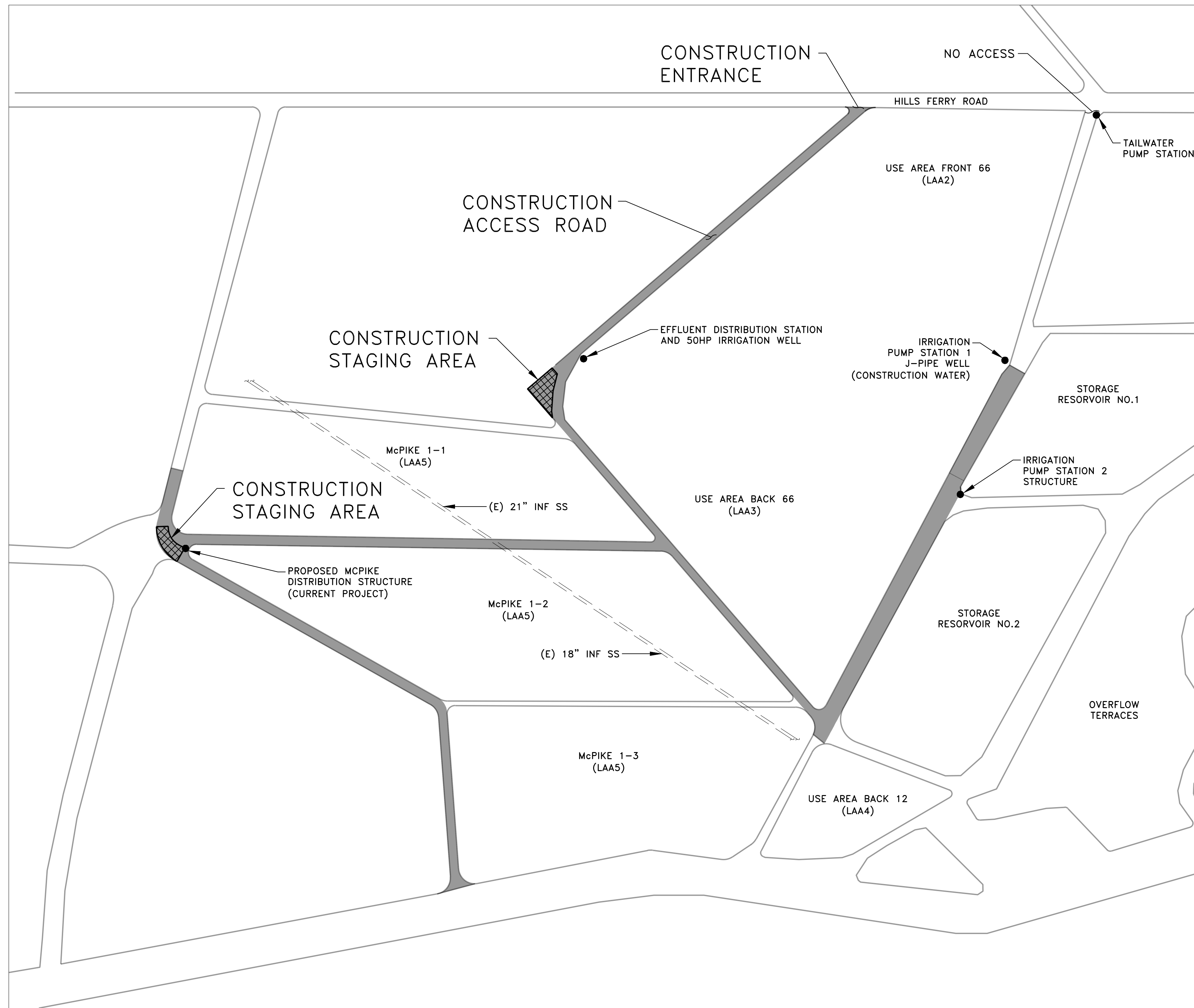
KEY PLAN

Project No.
2002005593

Scale
1" = 200'

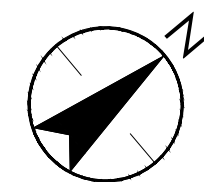
Revision Sheet
4 of 41

Drawing No.
G03



GENERAL NOTES

1. VERTICAL DATUM: NGVD29 BASED ON BENCH MARK 'J-982' ELEVATION 66.77 FEET
2. HORIZONTAL DATUM CALIFORNIA STATE PLANE COORDINATE SYSTEM ZONE 8, NAD83 (1991.35) CA HPGN.
3. PIPELINES AND FINISHED GRADES SHALL SLOPE UNIFORMLY BETWEEN ELEVATIONS SHOWN ON THE PLANS AND SECTIONS.
4. THE CONTRACTOR SHALL FIELD CHECK ALL EXISTING STRUCTURES, PIPELINES AND GRADES FOR VERIFICATION OF DIMENSIONS AND ELEVATIONS. SEE SPECIFICATIONS.
5. BEFORE BEGINNING ANY EXCAVATION THE CONTRACTOR SHALL NOTIFY UNDERGROUND SERVICE ALERT (1800-643-2444) 48 HOURS PRIOR TO COMMENCEMENT OF EXCAVATION.
6. A MINIMUM OF 6 INCHES CLEARANCE SHALL BE MAINTAINED BETWEEN PIPE AND CROSSING UNDERGROUND WHETHER SHOWN ON THE PLANS OR NOT. UNLESS OTHERWISE SHOWN, ALL PIPELINES SHALL HAVE A MINIMUM COVER OF 30 INCHES.
7. PULL JOINTS ON STANDARD FITTINGS OR ADJACENT PIPE JOINTS TO OBTAIN VERTICAL OR HORIZONTAL CURVES SHOWN.
8. WHERE FIXED DIMENSIONS ARE NOT SHOWN THE CONTRACTOR SHALL SCALE THE DRAWINGS TO DETERMINE LOCATIONS, SUBJECT TO MINOR ADJUSTMENTS BY THE ENGINEER.
9. LAYOUT OF ALL IRRIGATION VALVES AND IRRIGATION CHECKS IS APPROXIMATE. ENGINEERS APPROVAL IS REQUIRED FOR FINAL LAYOUT.
10. MINIMIZE DISTURBANCE AND COMPACTION OF AGRICULTURAL SOIL WHENEVER POSSIBLE. ALL CONSTRUCTION EQUIPMENT OPERATING IN AGRICULTURAL FIELDS MUST STAY WITHIN DESIGNATED CONSTRUCTION EASEMENTS.
11. FOR ALL EXCAVATIONS OCCURRING ON AGRICULTURAL LAND REMOVE AND STOCKPILE TOP SOIL TO BE REPLACED DURING SITE RESTORATION.
12. TIMING OF ALL CONSTRUCTION ACTIVITY MUST BE CLOSELY COORDINATED WITH ENGINEER AND WWTRF STAFF.
13. NEW IRRIGATION VALVES ARE OWNER SELECTED, MINIMUM DUTY CONDITION OF 22 FEET OF HEAD.
14. CONTRACTOR WILL HAVE AN APPROVED DEWATERING PLAN IN PLACE PRIOR TO ANY EXCAVATION.

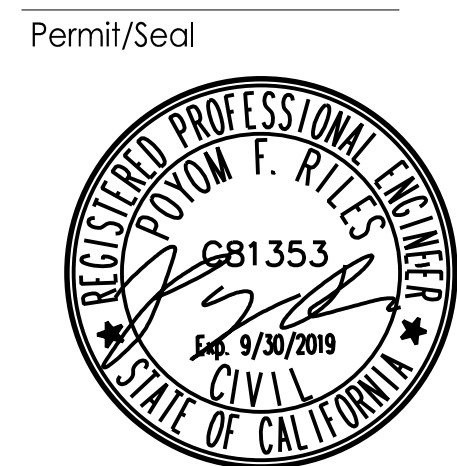


CONSTRUCTION STAGING AREA AND ACCESS ROAD
NTS

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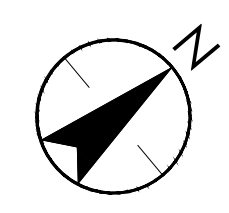
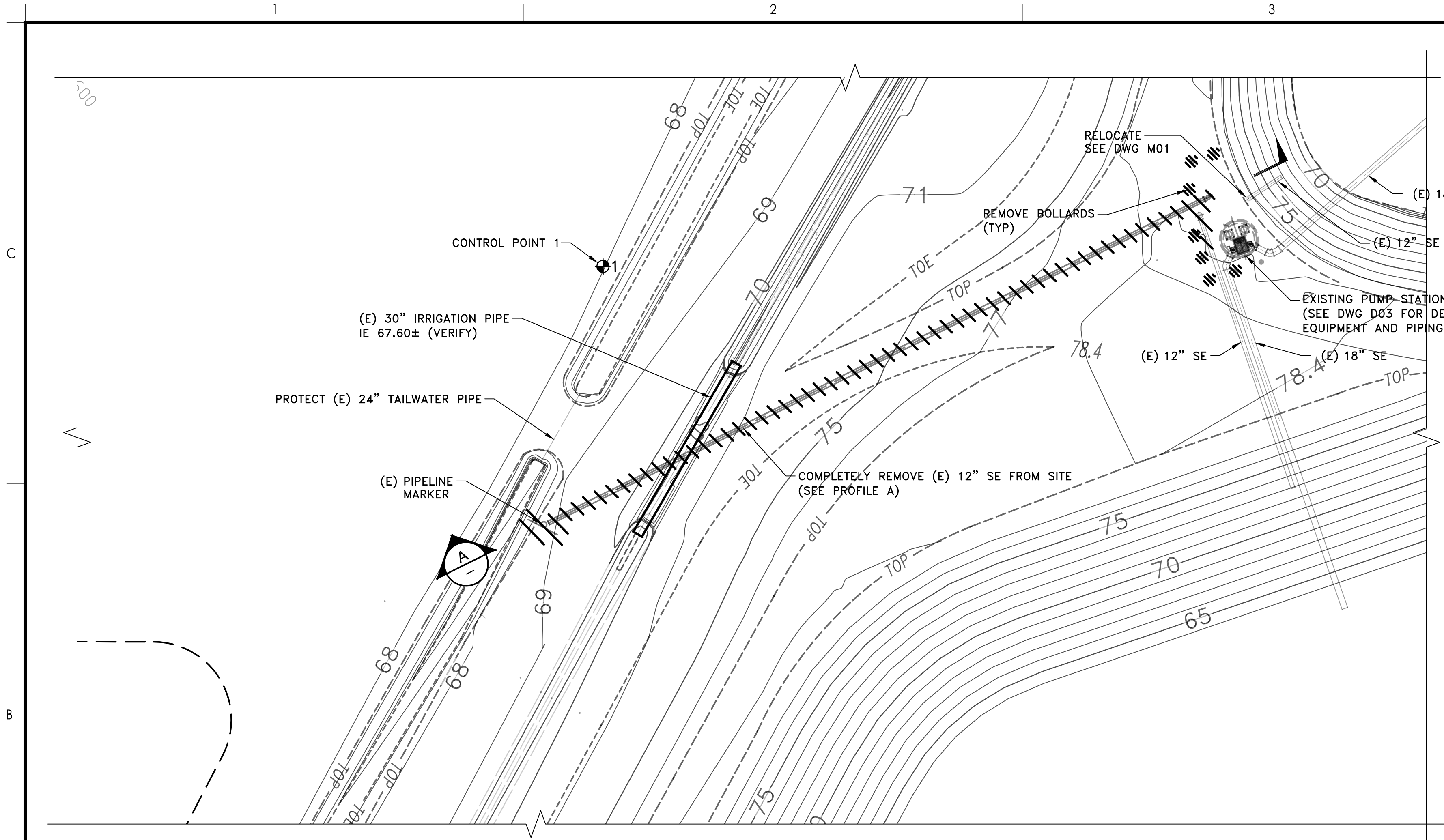
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Title
**GENERAL NOTES,
CONSTRUCTION STAGING AREA
AND ACCESS ROAD**

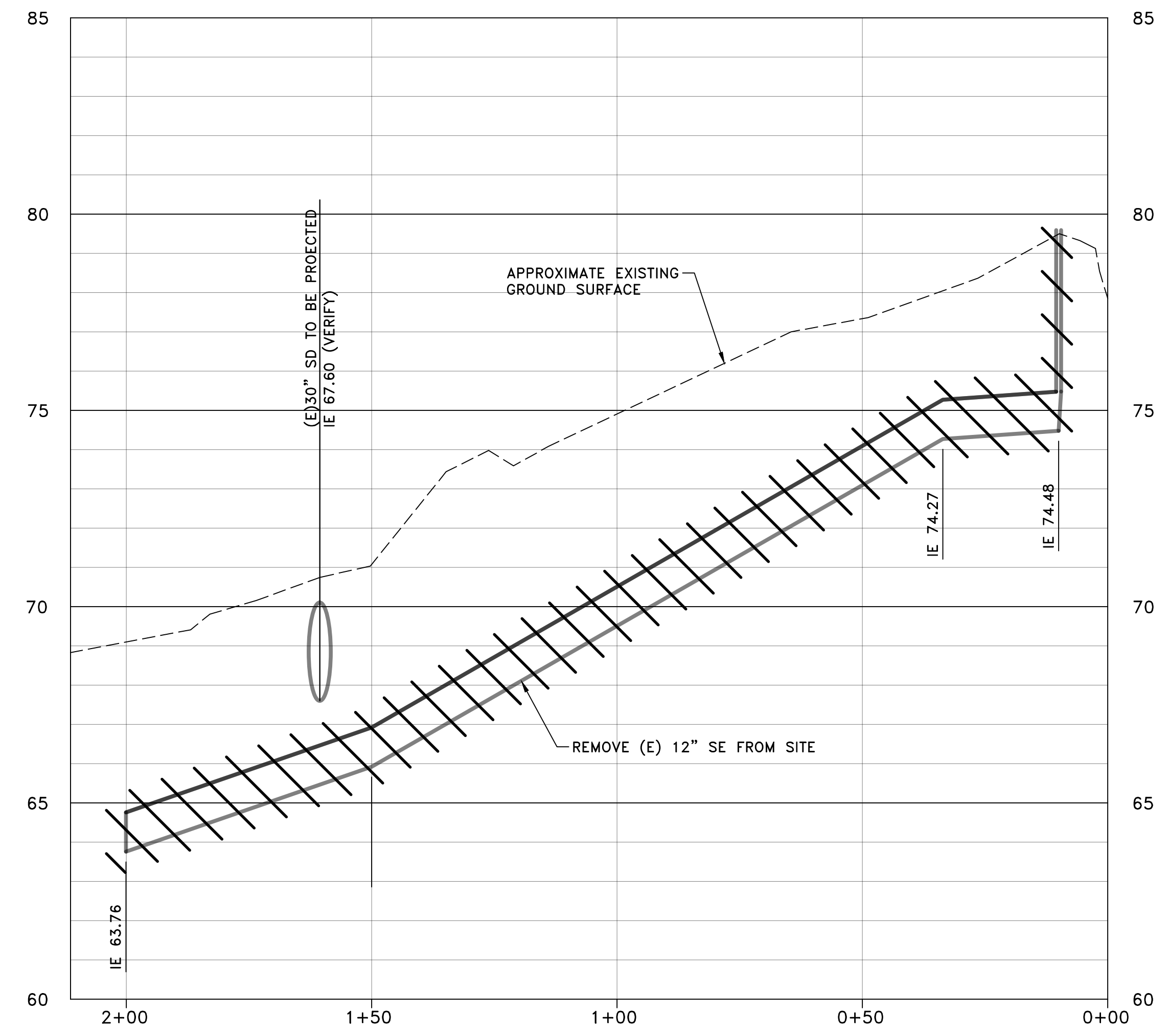
Project No. 2002005593 Scale NTS

Revision Sheet Drawing No. **G04**

5 of 41



PLAN
1" = 20'



PROFILE
HORZ: 1" = 20', VERT 2" = 5'

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WWTRF MCPIKE 1
RECLAMATION IMPROVEMENTS

NEWMAN, CALIFORNIA

File Name: X05593-PP

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Title

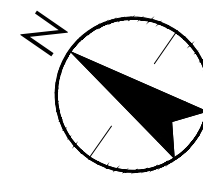
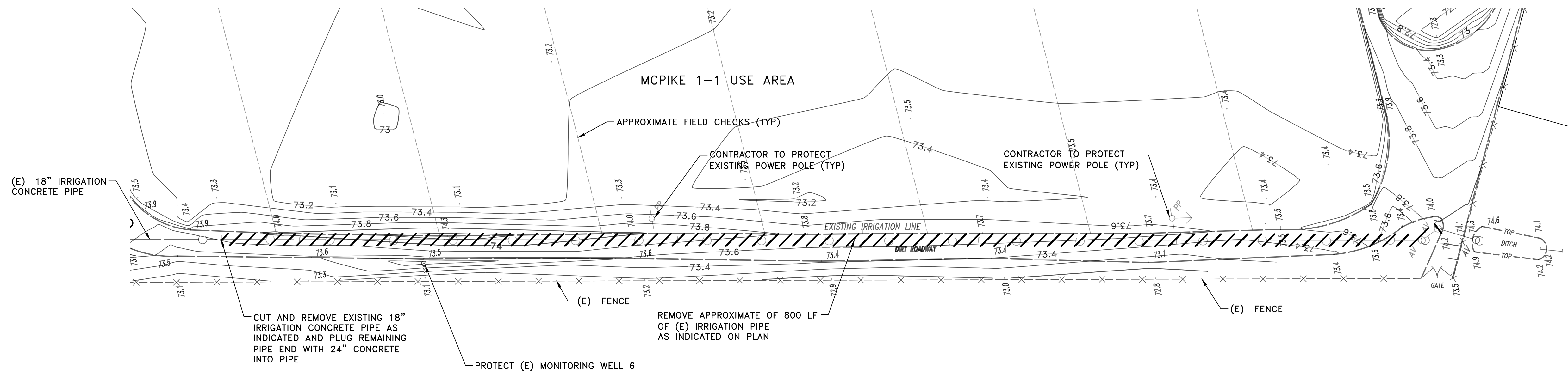
**EXISTING 12" SE PIPE DEMOLITION
PLAN AND PROFILE**

Project No. 2002005593

Scale

Revision Sheet Drawing No.

6 of 41 **D01**



PLAN

1" = 40'

NOTES:

1. MINIMIZE DISTURBANCE AND COMPACTION OF AGRICULTURAL SOIL WHENEVER POSSIBLE.
2. REFER TO DRAWINGS C03 AND C04 FOR NEW CONSTRUCTION IN THIS AREA.

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CITY OF NEWMAN

WWTRF MCPIKE 1
RECLAMATION IMPROVEMENTS

NEWMAN, CALIFORNIA

File Name: X05593-PP

RG	PR	CA	2019.08.02
Dwn.	Dgnr.	Chkd.	YYYY.MM.DD

Title

**EXISTING MCPIKE 1-1 IRRIGATION PIPE
DEMOLITION PLAN**

Project No. 2002005593

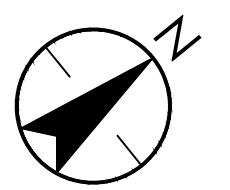
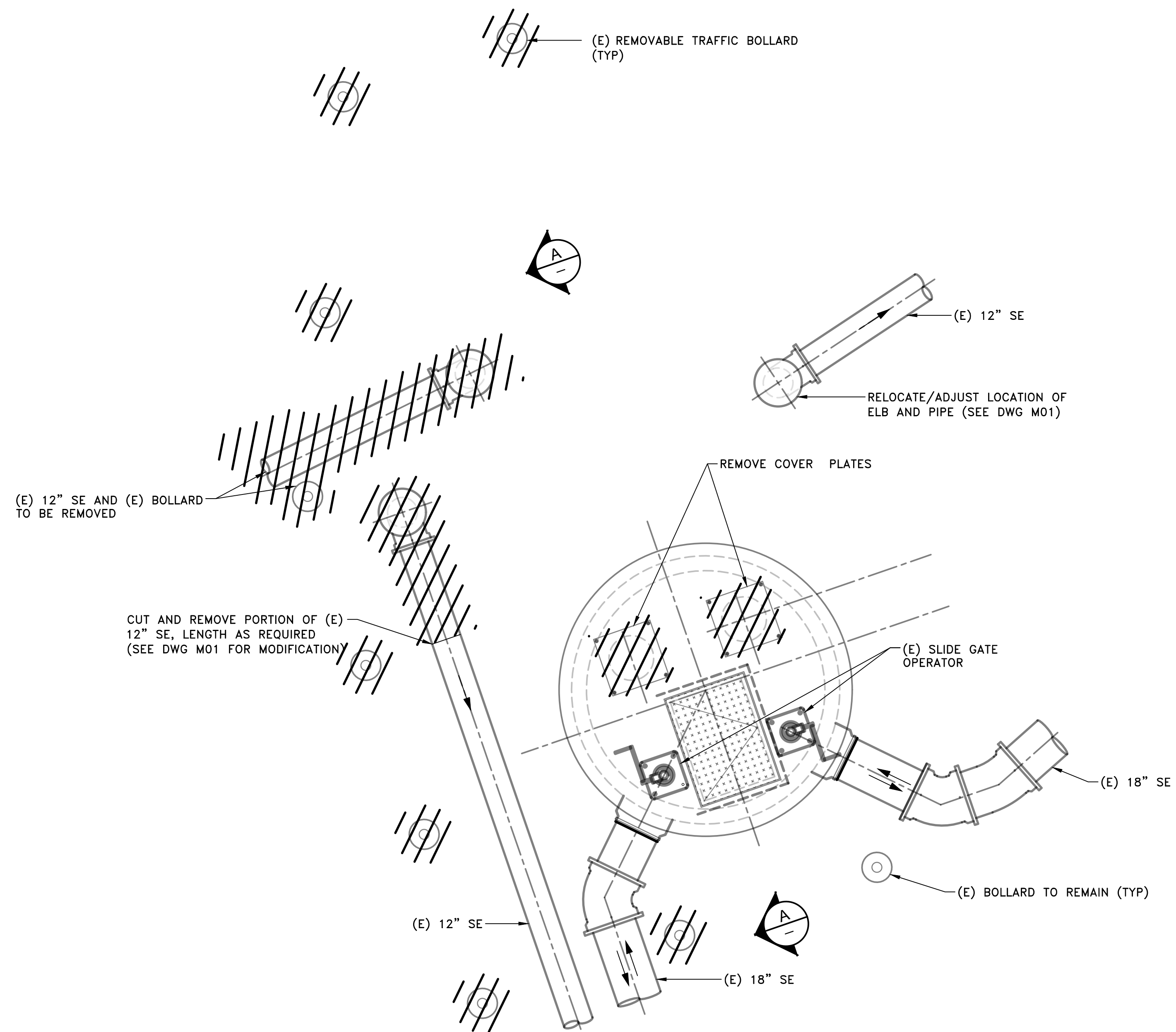
Scale SEE DWG

Revision Sheet Drawing No.

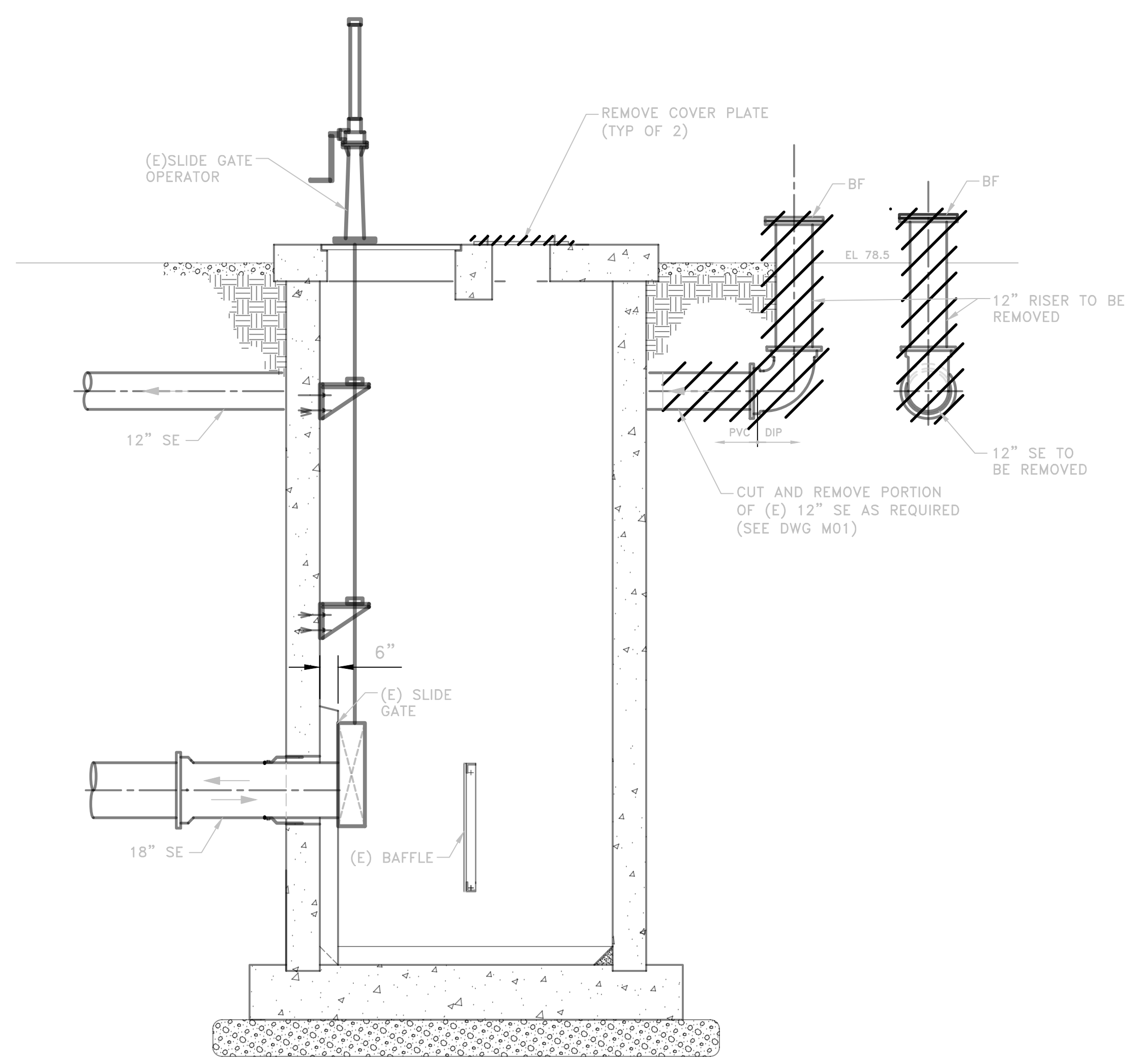
7 of 41

D02

C
B
A



TOP PLAN
SCALE: 3/8"=1'-0"



SECTION
SCALE: 3/8"=1'-0"

- NOTES:**
- SEE SPEC 02100 DEMOLITION, CLEARING, GRUBBING AND STRIPING.
 - SEE DWG C10 AND M01 FOR NEW CONSTRUCTION ASSOCIATED WITH THIS STRUCTURE.

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File Name: X05593-D03

RG	PR	CA	2019.08.02
Dwn.	Dgnr.	Chkd.	YYYY.MM.DD

Title

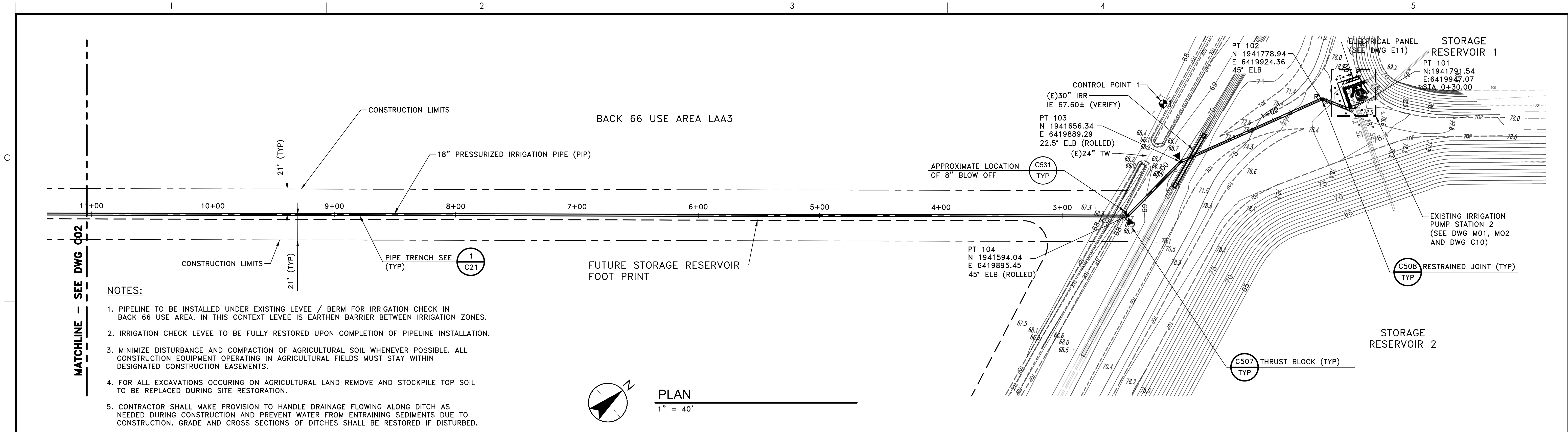
**IRRIGATION PUMP STATION 2
DEMOLITION**

Project No. 2002005593

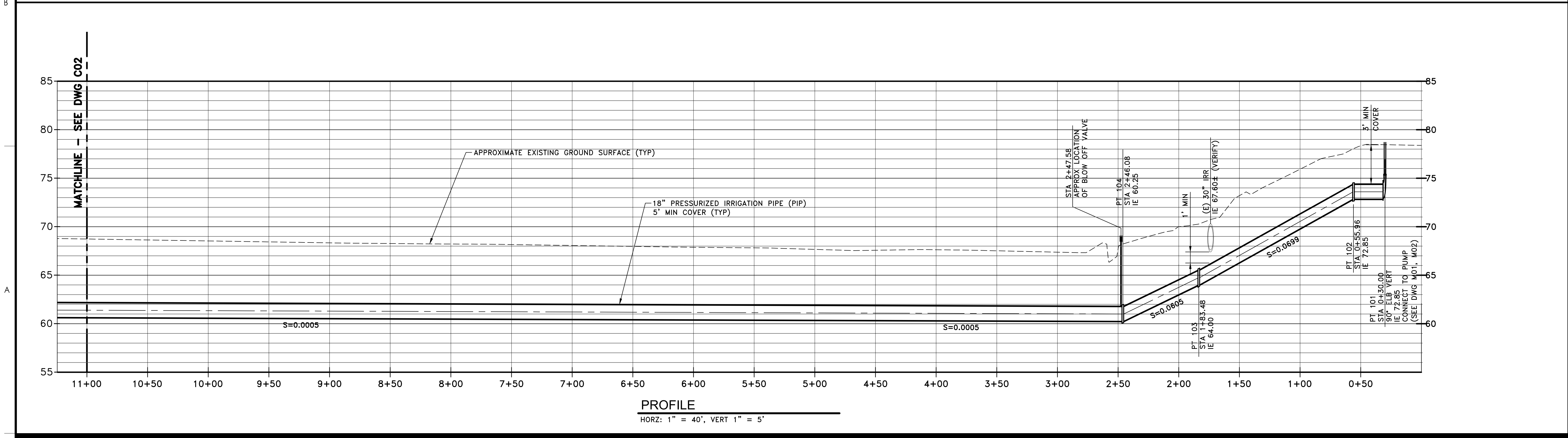
Scale

Revision Sheet 8 of 41

Drawing No. **D03**



- NOTES:**
- PIPELINE TO BE INSTALLED UNDER EXISTING LEVEE / BERM FOR IRRIGATION CHECK IN BACK 66 USE AREA. IN THIS CONTEXT LEVEE IS EARTHEN BARRIER BETWEEN IRRIGATION ZONES.
 - IRRIGATION CHECK LEVEE TO BE FULLY RESTORED UPON COMPLETION OF PIPELINE INSTALLATION.
 - MINIMIZE DISTURBANCE AND COMPACTION OF AGRICULTURAL SOIL WHENEVER POSSIBLE. ALL CONSTRUCTION EQUIPMENT OPERATING IN AGRICULTURAL FIELDS MUST STAY WITHIN DESIGNATED CONSTRUCTION EASEMENTS.
 - FOR ALL EXCAVATIONS OCCURRING ON AGRICULTURAL LAND REMOVE AND STOCKPILE TOP SOIL TO BE REPLACED DURING SITE RESTORATION.
 - CONTRACTOR SHALL MAKE PROVISION TO HANDLE DRAINAGE FLOWING ALONG DITCH AS NEEDED DURING CONSTRUCTION AND PREVENT WATER FROM ENTRAINING SEDIMENTS DUE TO CONSTRUCTION. GRADE AND CROSS SECTIONS OF DITCHES SHALL BE RESTORED IF DISTURBED.

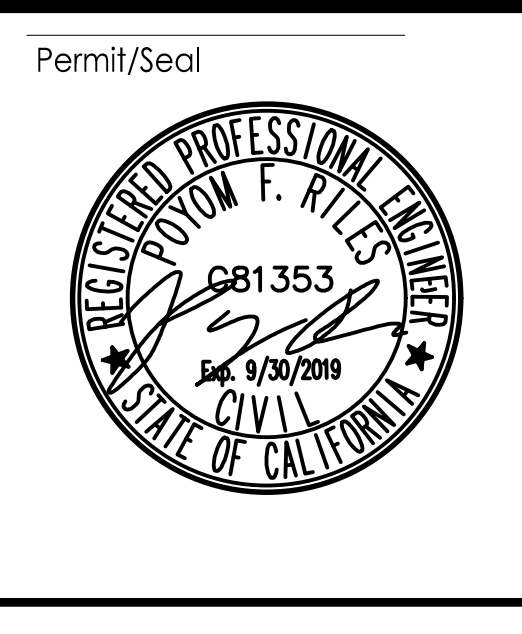


PROFILE
 HORZ: 1" = 40', VERT 1" = 5'

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NEWMAN, CALIFORNIA

File Name: X0593-PP

RG	PR	CA	2019.08.02
Dwn.	Dgn.	Chkd.	YYYY.MM.DD

Title

**18" PRESSUSIZED IRRIGATION PIPE
 PLAN AND PROFILE
 STA 0+20 TO STA 11+00**

Project No.
 2002005593

Scale
 SEE DWG

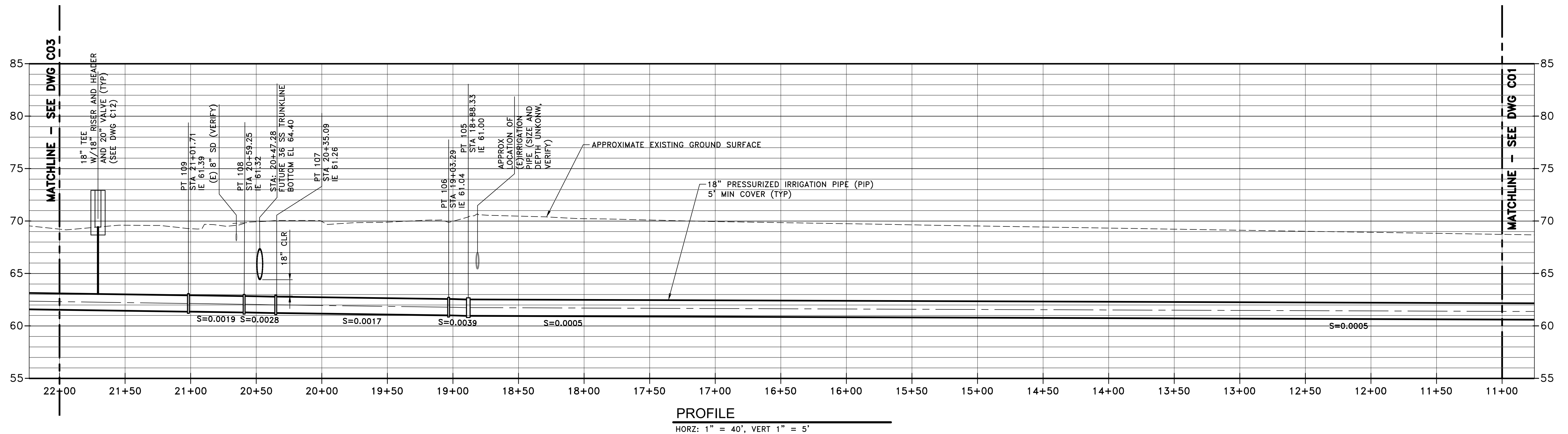
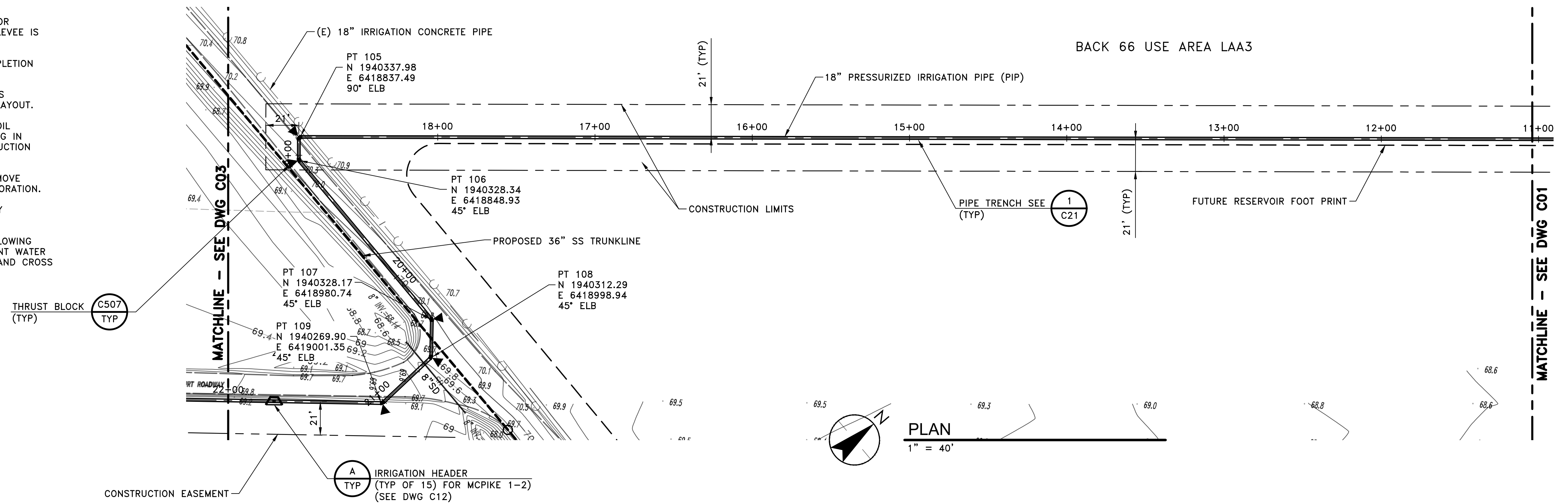
Revision Sheet
 9 of 41

Drawing No.
C01

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 ORIGINAL SHEET - ANSI D

NOTES:

- PIPELINE TO BE INSTALLED UNDER EXISTING LEVEE / BERM FOR IRRIGATION CHECK IN BACK 66 USE AREA. IN THIS CONTEXT LEVEE IS EARTHEN BARRIER BETWEEN IRRIGATION ZONES.
- IRRIGATION CHECK LEVEE TO BE FULLY RESTORED UPON COMPLETION OF PIPELINE INSTALLATION.
- LAYOUT OF ALL IRRIGATION VALVES AND IRRIGATION CHECKS IS APPROXIMATE. ENGINEERS APPROVAL IS REQUIRED FOR FINAL LAYOUT.
- MINIMIZE DISTURBANCE AND COMPACTION OF AGRICULTURAL SOIL WHENEVER POSSIBLE. ALL CONSTRUCTION EQUIPMENT OPERATING IN AGRICULTURAL FIELDS MUST STAY WITHIN DESIGNATED CONSTRUCTION EASEMENTS.
- FOR ALL EXCAVATIONS OCCURRING ON AGRICULTURAL LAND REMOVE AND STOCKPILE TOP SOIL TO BE REPLACED DURING SITE RESTORATION.
- NEW IRRIGATION VALVES ARE OWNER SELECTED, MINIMUM DUTY CONDITION OF 22 FEET OF HEAD.
- CONTRACTOR SHALL MAKE PROVISION TO HANDLE DRAINAGE FLOWING ALONG DITCH AS NEEDED DURING CONSTRUCTION AND PREVENT WATER FROM ENTRAINING SEDIMENTS DUE TO CONSTRUCTION. GRADE AND CROSS SECTIONS OF DITCHES SHALL BE RESTORED IF DISTURBED.



PROFILE
 HORZ: 1" = 40', VERT 1" = 5'

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NEWMAN, CALIFORNIA

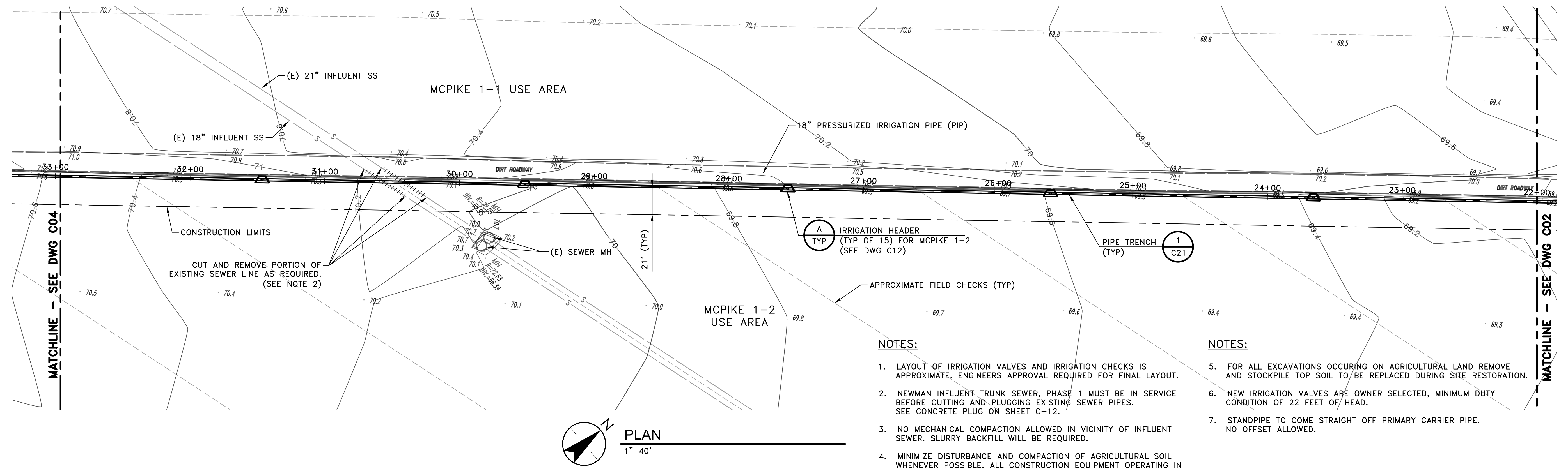
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Dwn.	Dgn.	Chk.	YYYY.MM.DD

Title

**18" PRESSURIZED IRRIGATION PIPE
 PLAN AND PROFILE
 STA 11+00 TO STA 22+00**

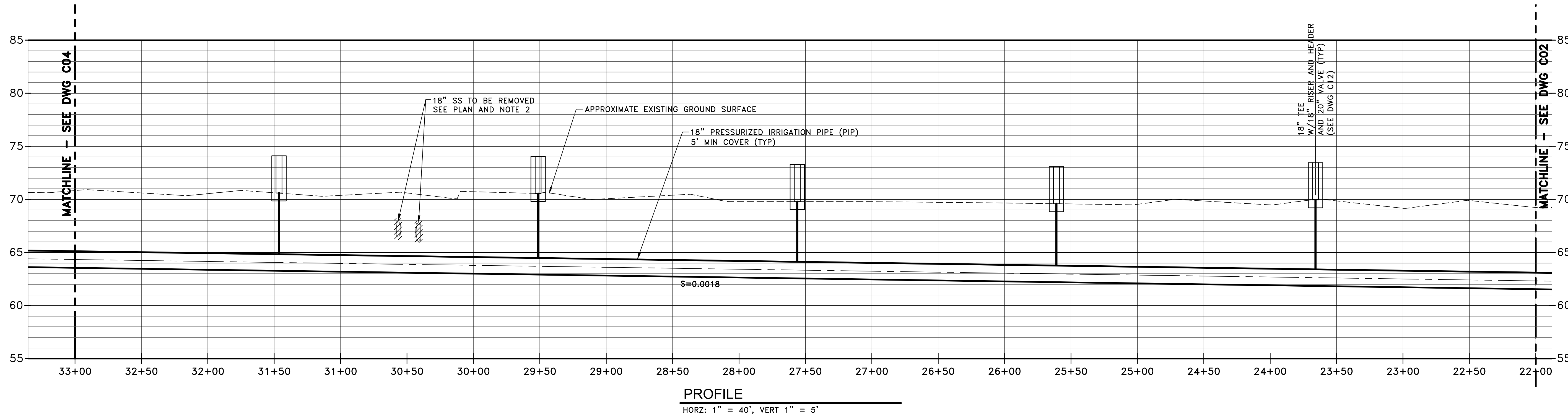
Project No. 2002005593 Scale SEE DRAWING

Revision Sheet Drawing No. 10 of 41 **C02**



NOTES:

- LAYOUT OF IRRIGATION VALVES AND IRRIGATION CHECKS IS APPROXIMATE, ENGINEERS APPROVAL REQUIRED FOR FINAL LAYOUT.
- NEWMAN INFLUENT TRUNK SEWER, PHASE 1 MUST BE IN SERVICE BEFORE CUTTING AND PLUGGING EXISTING SEWER PIPES. SEE CONCRETE PLUG ON SHEET C-12.
- NO MECHANICAL COMPACTION ALLOWED IN VICINITY OF INFLUENT SEWER. SLURRY BACKFILL WILL BE REQUIRED.
- MINIMIZE DISTURBANCE AND COMPACTION OF AGRICULTURAL SOIL WHENEVER POSSIBLE. ALL CONSTRUCTION EQUIPMENT OPERATING IN AGRICULTURAL FIELDS MUST STAY WITHIN DESIGNATED CONSTRUCTION CASEMENTS.
- FOR ALL EXCAVATIONS OCCURING ON AGRICULTURAL LAND REMOVE AND STOCKPILE TOP SOIL TO BE REPLACED DURING SITE RESTORATION.
- NEW IRRIGATION VALVES ARE OWNER SELECTED, MINIMUM DUTY CONDITION OF 22 FEET OF HEAD.
- STANDPIPE TO COME STRAIGHT OFF PRIMARY CARRIER PIPE. NO OFFSET ALLOWED.



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NEWMAN, CALIFORNIA

File Name: X05593-PP

RG	PR	CA	2019.08.02
Dwn.	Dgnr.	Chkd.	YYYY.MM.DD

Title

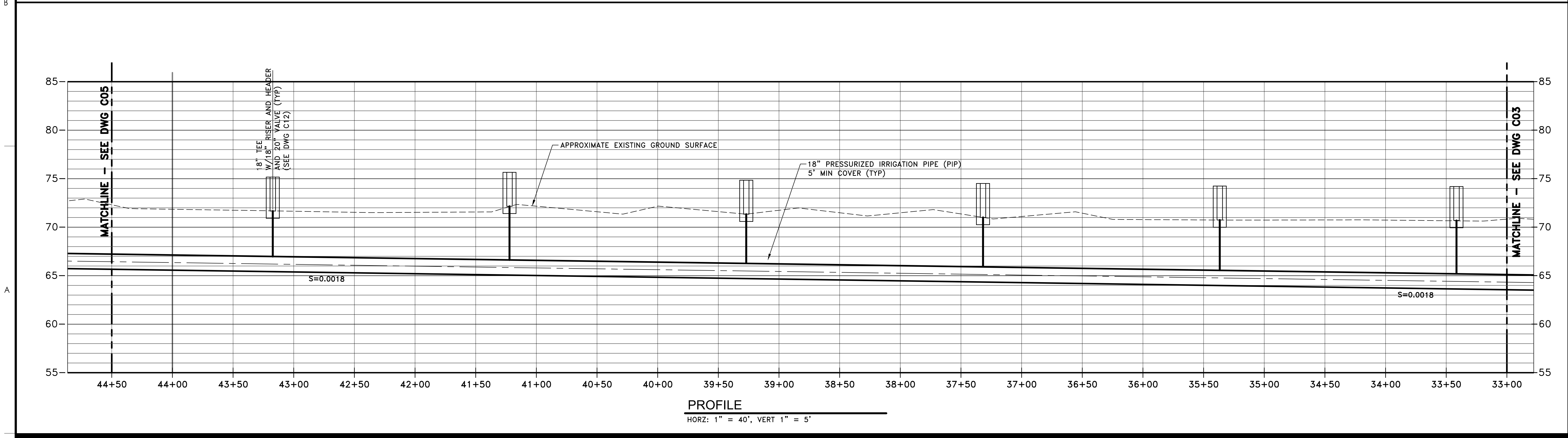
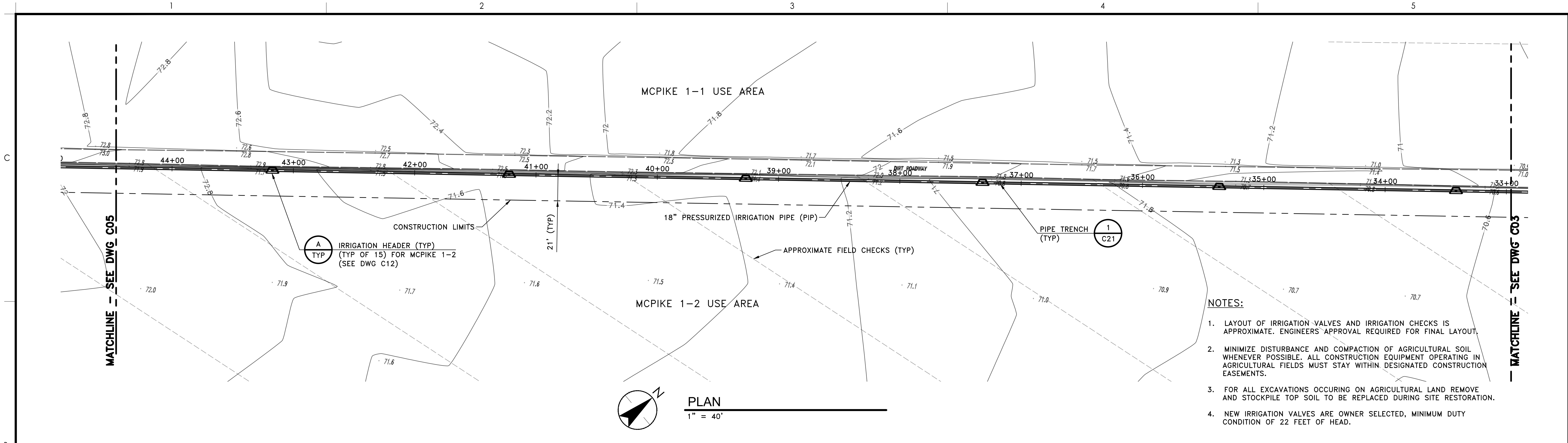
**18" PRESSURISED IRRIGATION PIPE
PLAN AND PROFILE
STA 22+00 TO STA 33+00**

Project No. 2002005593

Scale SCALE

Revision Sheet 11 of 41

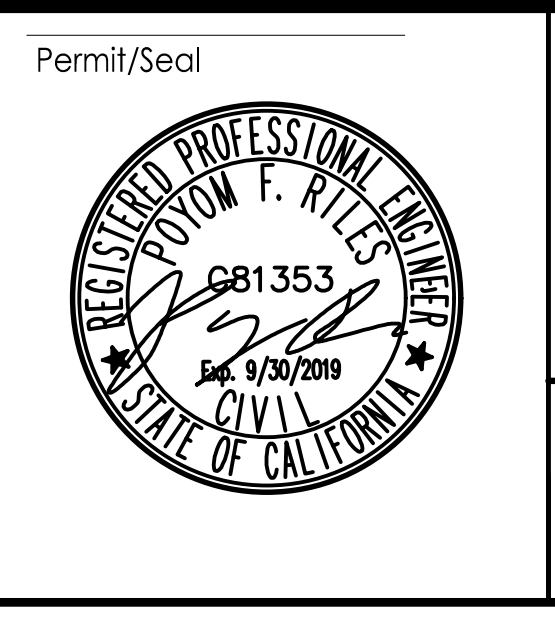
Drawing No. **C03**



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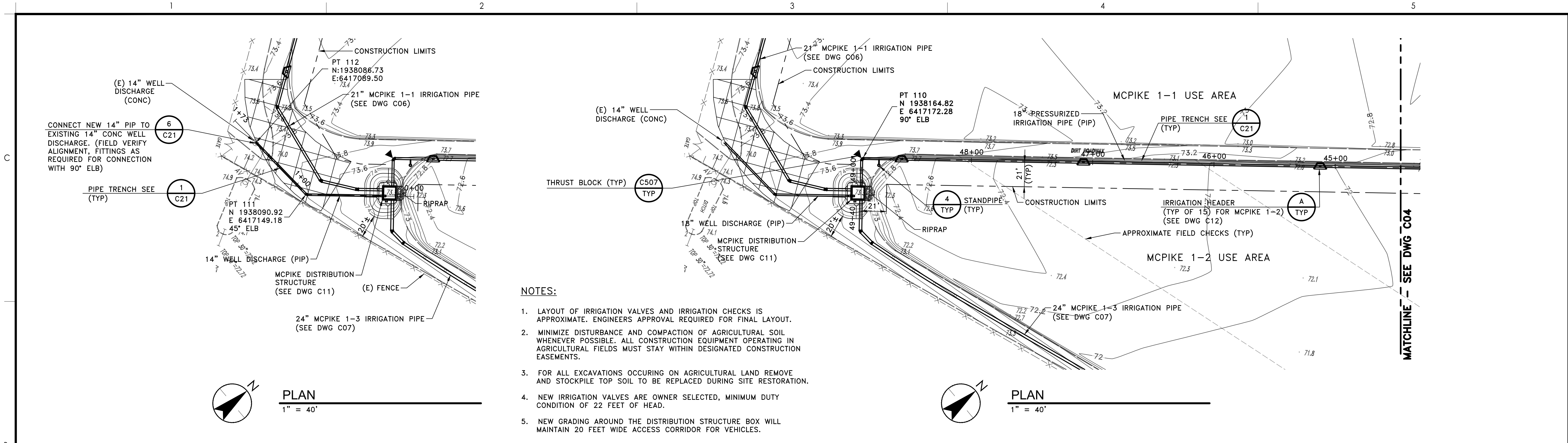
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Dwn.	Dgnr.	Chkd.	YYYY.MM.DD

Title
**18" PRESSURISED IRRIGATION PIPE
PLAN AND PROFILE
STA 33+00 TO STA 44+50**

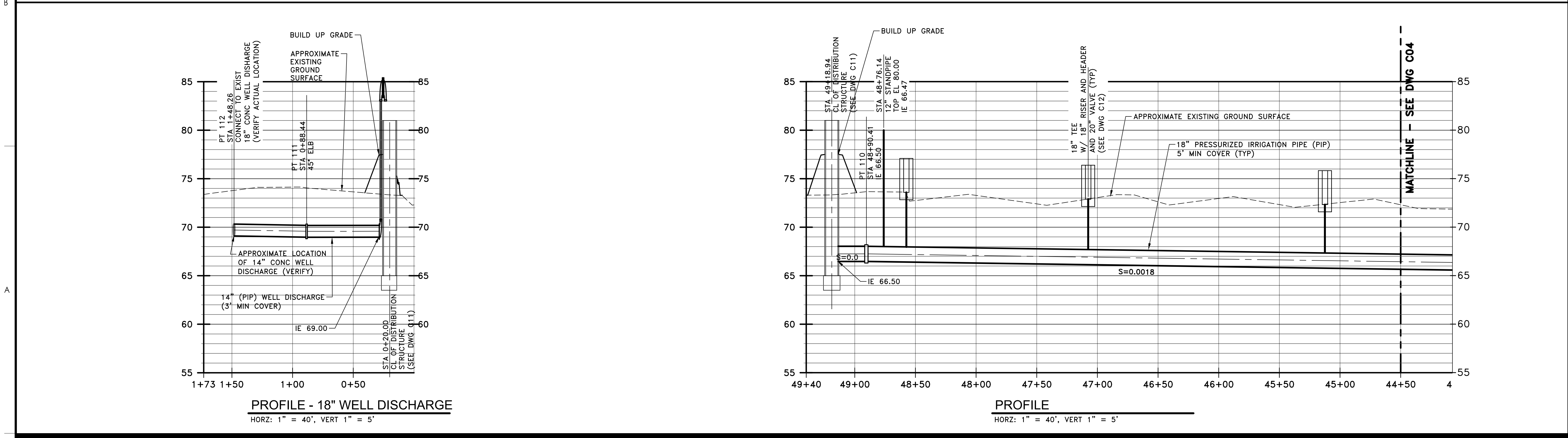
Project No. 2002005593 Scale SEE DWG

Revision Sheet Drawing No. 12 of 41 **C04**

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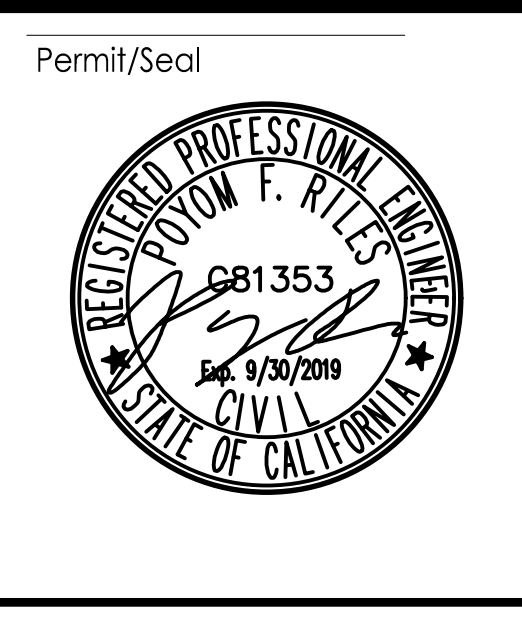
- NOTES:**
- LAYOUT OF IRRIGATION VALVES AND IRRIGATION CHECKS IS APPROXIMATE. ENGINEERS APPROVAL REQUIRED FOR FINAL LAYOUT.
 - MINIMIZE DISTURBANCE AND COMPACTION OF AGRICULTURAL SOIL WHENEVER POSSIBLE. ALL CONSTRUCTION EQUIPMENT OPERATING IN AGRICULTURAL FIELDS MUST STAY WITHIN DESIGNATED CONSTRUCTION EASEMENTS.
 - FOR ALL EXCAVATIONS OCCURRING ON AGRICULTURAL LAND REMOVE AND STOCKPILE TOP SOIL TO BE REPLACED DURING SITE RESTORATION.
 - NEW IRRIGATION VALVES ARE OWNER SELECTED, MINIMUM DUTY CONDITION OF 22 FEET OF HEAD.
 - NEW GRADING AROUND THE DISTRIBUTION STRUCTURE BOX WILL MAINTAIN 20 FEET WIDE ACCESS CORRIDOR FOR VEHICLES.



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Dwn.	Dgnr.	Chkd.	YYYY.MM.DD

Title

**18" PRESSURE IRRIGATION PIPE
PLAN AND PROFILE - STA 44+50 TO STA 49+18.85
AND 18" WELL DISCHARGE -PLAN AND PROFILE**

Project No. 2002005593

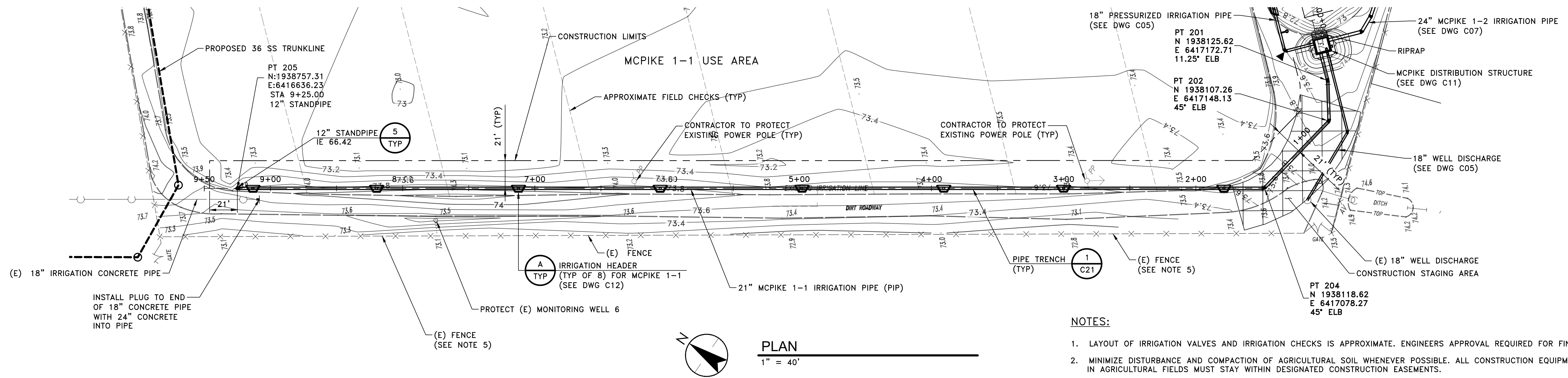
Scale SEE DWG

Revision Sheet Drawing No.

13 of 41

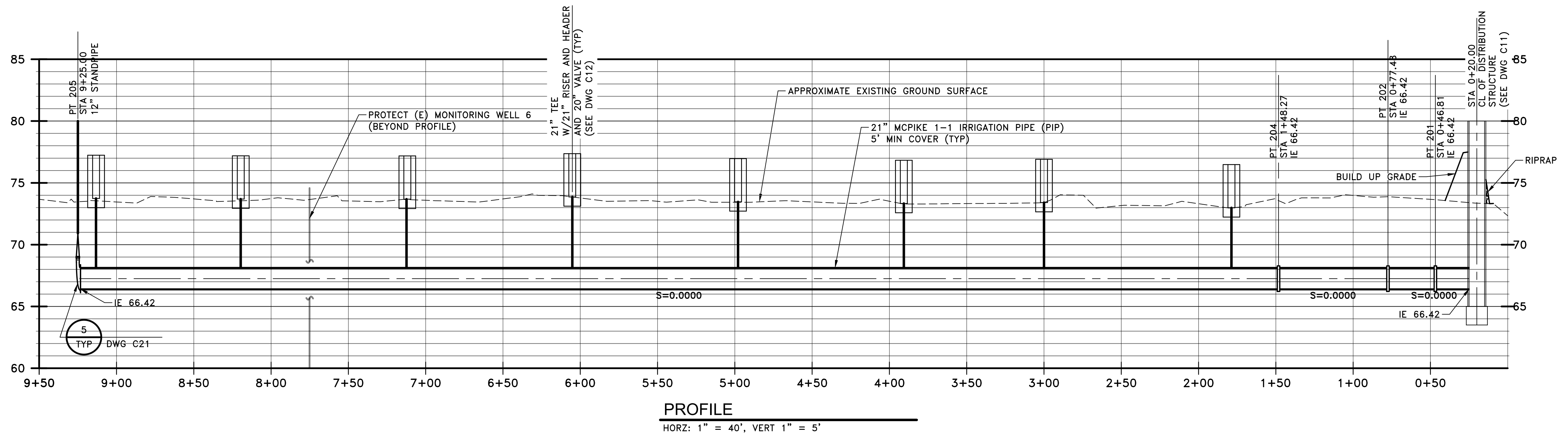
C05

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- MINIMIZE DISTURBANCE AND COMPACTION OF AGRICULTURAL SOIL WHENEVER POSSIBLE. ALL CONSTRUCTION EQUIPMENT OPERATING IN AGRICULTURAL FIELDS MUST STAY WITHIN DESIGNATED CONSTRUCTION EASEMENTS.
- FOR ALL EXCAVATIONS OCCURING ON AGRICULTURAL LAND REMOVE AND STOCKPILE TOP SOIL TO BE REPLACED DURING SITE RESTORATION.
- NEW IRRIGATION VALVES ARE OWNER SELECTED, MINIMUM DUTY CONDITION OF 22 FEET OF HEAD.
- CONTRACTOR TO PROTECT EXISTING TREES AND VEGETATION ALONG FENCE.
- NEW GRADING AROUND THE DISTRIBUTION STRUCTURE BOX WILL MAINTAIN 20 FEET WIDE ACCESS CORRIDOR FOR VEHICLES.



PROFILE

HORZ: 1" = 40', VERT 1" = 5'

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NEWMAN, CALIFORNIA

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	Dwn.	Dgnr.	Chkd.	YYYY.MM.DD

Title

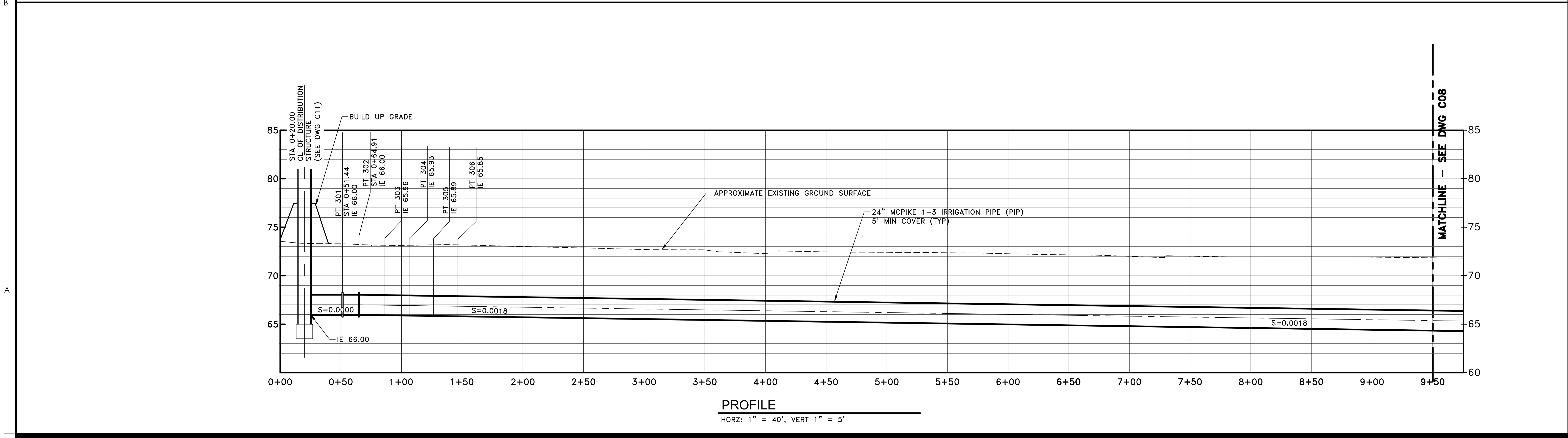
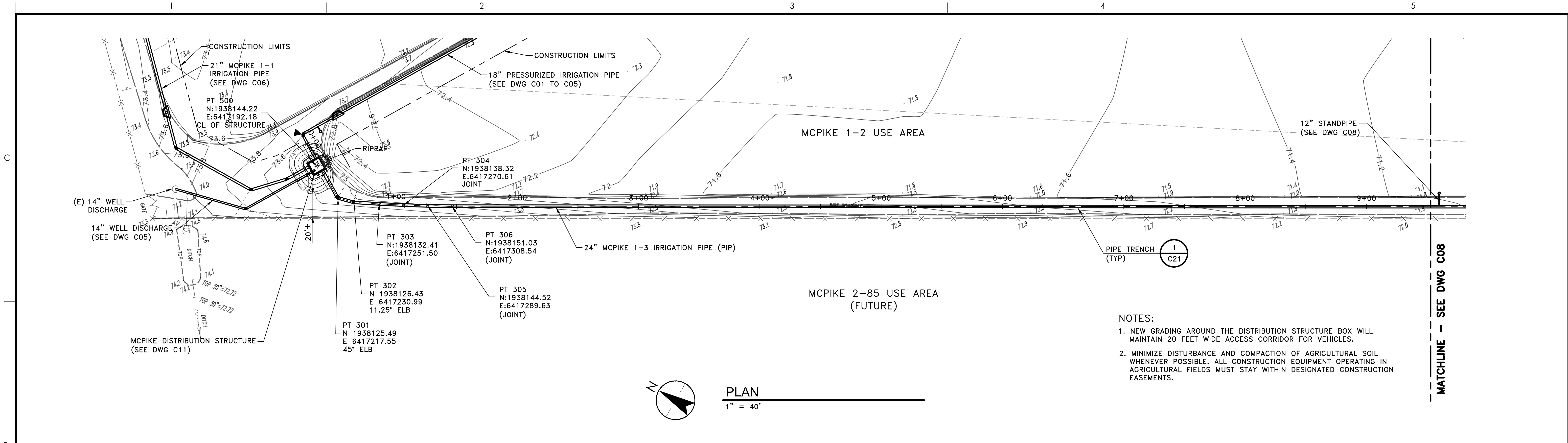
**21" MCPIKE 1-1 IRRIGATION PIPE
PLAN AND PROFILE
STA 0+20 TO STA 9+25**

Project No.
2002005593

Scale
SEE DWG

Revision Sheet
14 of 41

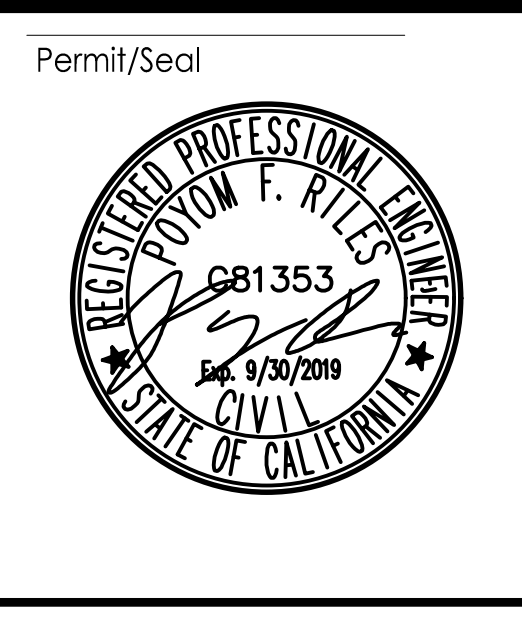
Drawing No.
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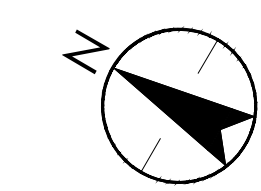
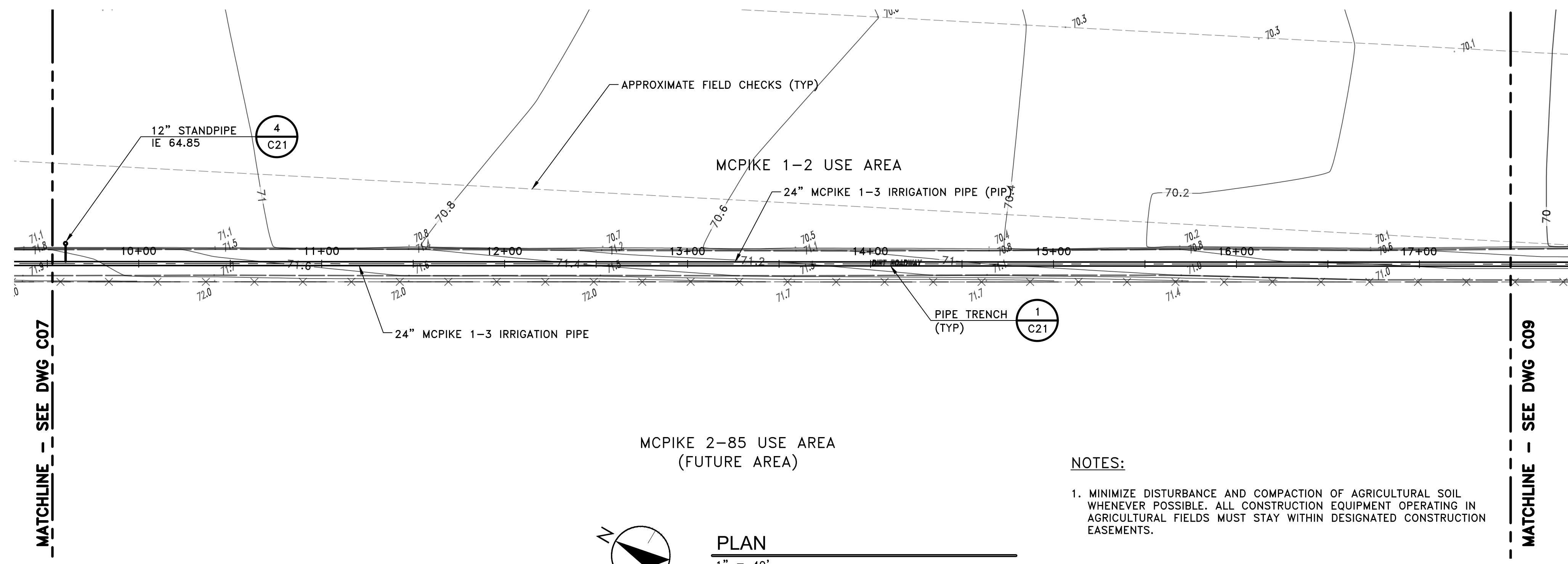
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Dwn.	Dgnr.	Chkd.	YYYY.MM.DD

Title
**24" MCPIPE 1-3 IRRIGATION PIPE
PLAN AND PROFILE 1
STA 0+20 TO STA 9+50**

Project No. 2002005593 Scale SEE DWG

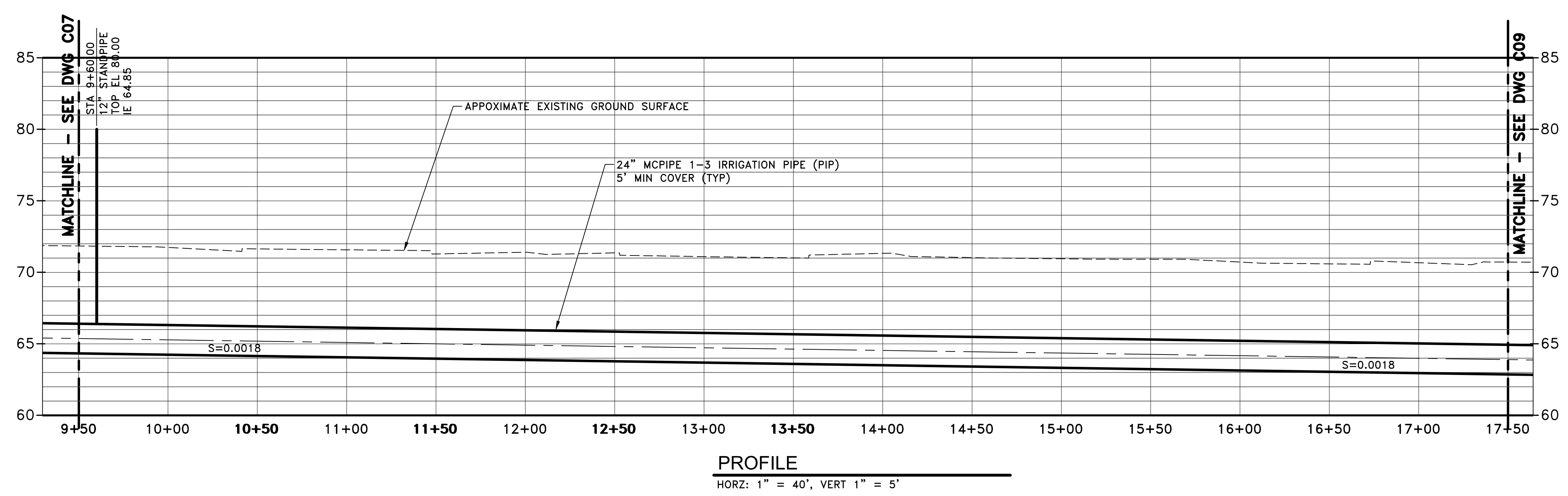
Revision Sheet Drawing No. 15 of 41 **C07**

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PLAN
1" = 40'

- NOTES:
1. MINIMIZE DISTURBANCE AND COMPACTION OF AGRICULTURAL SOIL WHENEVER POSSIBLE. ALL CONSTRUCTION EQUIPMENT OPERATING IN AGRICULTURAL FIELDS MUST STAY WITHIN DESIGNATED CONSTRUCTION EASEMENTS.



PROFILE
HORZ: 1" = 40', VERT 1" = 5'

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NEWMAN, CALIFORNIA

File Name: X05593-PP

RG	PR	CA	2019.08.02
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Title
**24" MCPIKE 1-3 IRRIGATION PIPE
PLAN AND PROFILE 2
STA 9+50 TO STA 17+50**

Project No. 2002005593

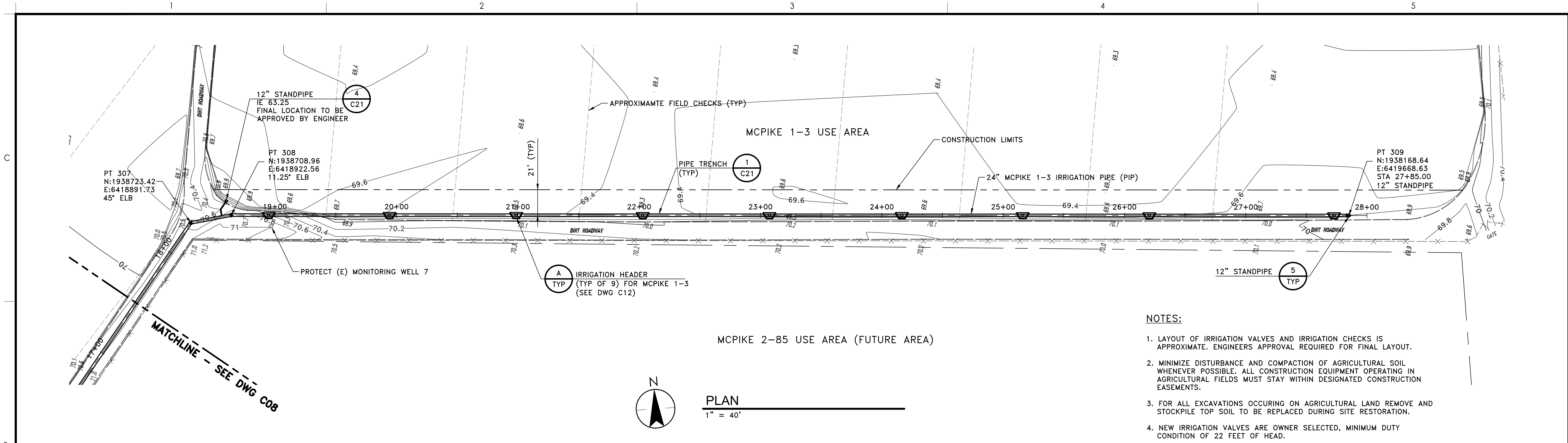
Scale SEE DWG

Revision Sheet Drawing No.

16 of 41

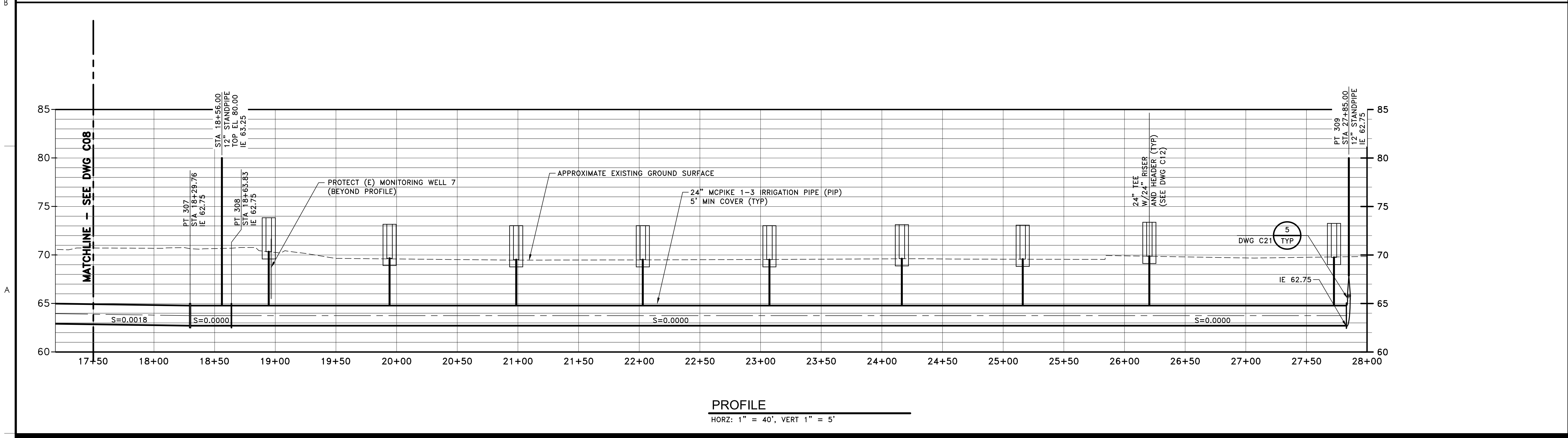
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- NOTES:**
- LAYOUT OF IRRIGATION VALVES AND IRRIGATION CHECKS IS APPROXIMATE. ENGINEERS APPROVAL REQUIRED FOR FINAL LAYOUT.
 - MINIMIZE DISTURBANCE AND COMPACTION OF AGRICULTURAL SOIL WHENEVER POSSIBLE. ALL CONSTRUCTION EQUIPMENT OPERATING IN AGRICULTURAL FIELDS MUST STAY WITHIN DESIGNATED CONSTRUCTION EASEMENTS.
 - FOR ALL EXCAVATIONS OCCURRING ON AGRICULTURAL LAND REMOVE AND STOCKPILE TOP SOIL TO BE REPLACED DURING SITE RESTORATION.
 - NEW IRRIGATION VALVES ARE OWNER SELECTED, MINIMUM DUTY CONDITION OF 22 FEET OF HEAD.

PLAN
1" = 40'

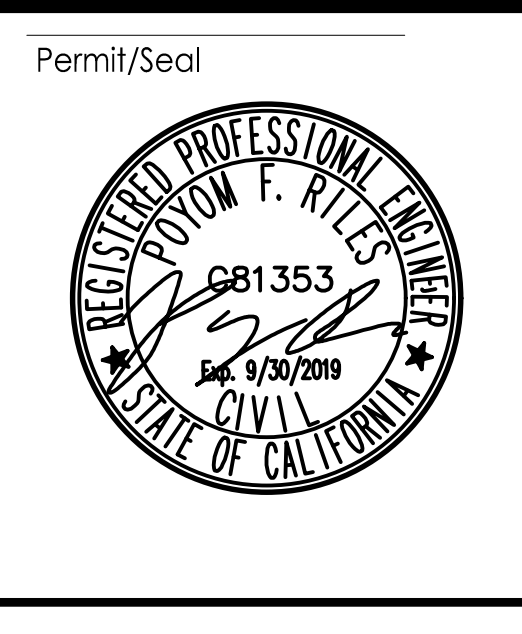


PROFILE
HORZ: 1" = 40', VERT 1" = 5'

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Title

**24" MCPIKE 1-3 IRRIGATION PIPE
PLAN AND PROFILE 3
STA 17+50 TO STA 28+00**

Project No.
2002005593

Scale
SEE DWG

Revision Sheet
17 of 41

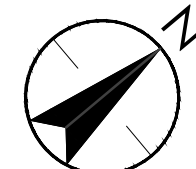
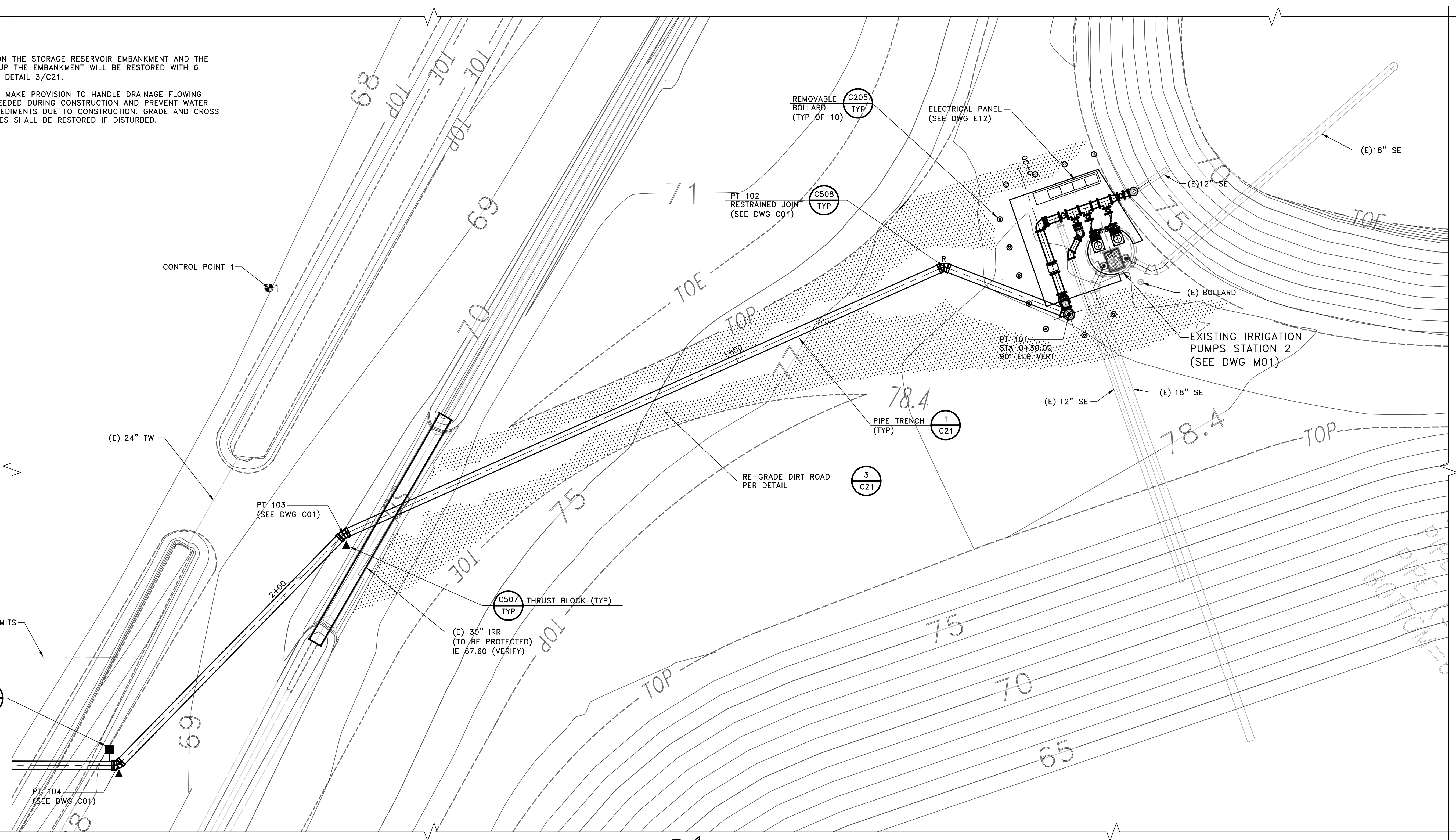
Drawing No.
C09

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NOTES:

1. ALL EXCAVATIONS ON THE STORAGE RESERVOIR EMBANKMENT AND THE ROADWAY LEADING UP THE EMBANKMENT WILL BE RESTORED WITH 6 INCHES OF AB. SEE DETAIL 3/C21.
2. CONTRACTOR SHALL MAKE PROVISION TO HANDLE DRAINAGE FLOWING ALONG DITCH AS NEEDED DURING CONSTRUCTION AND PREVENT WATER FROM ENTRAINING SEDIMENTS DUE TO CONSTRUCTION. GRADE AND CROSS SECTIONS OF DITCHES SHALL BE RESTORED IF DISTURBED.

C
B
A



PLAN
1" = 10'

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Title

**IRRIGATION PUMP STATION 2
SITE PLAN**

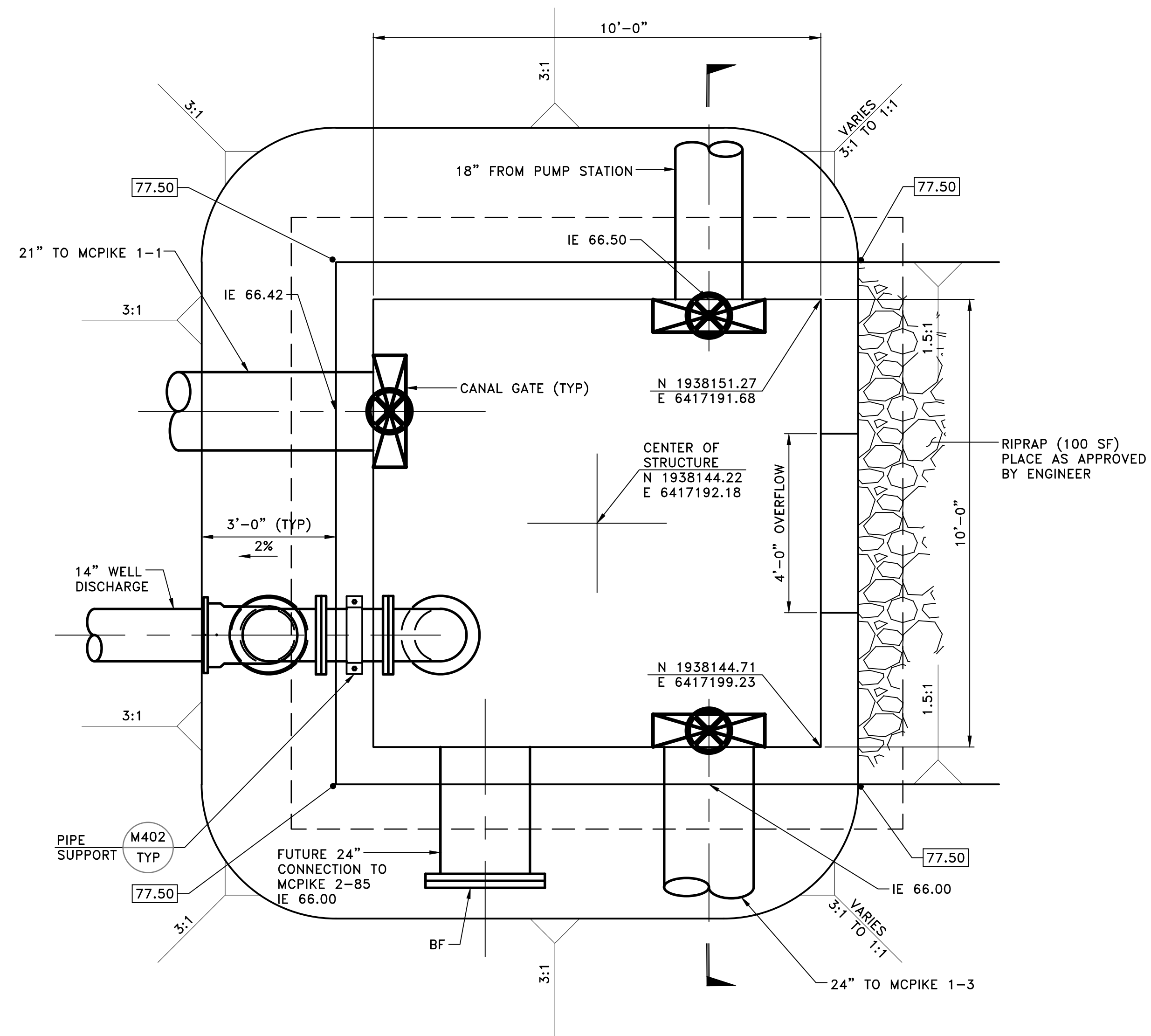
Project No. 2002005593

Scale SEE DWG

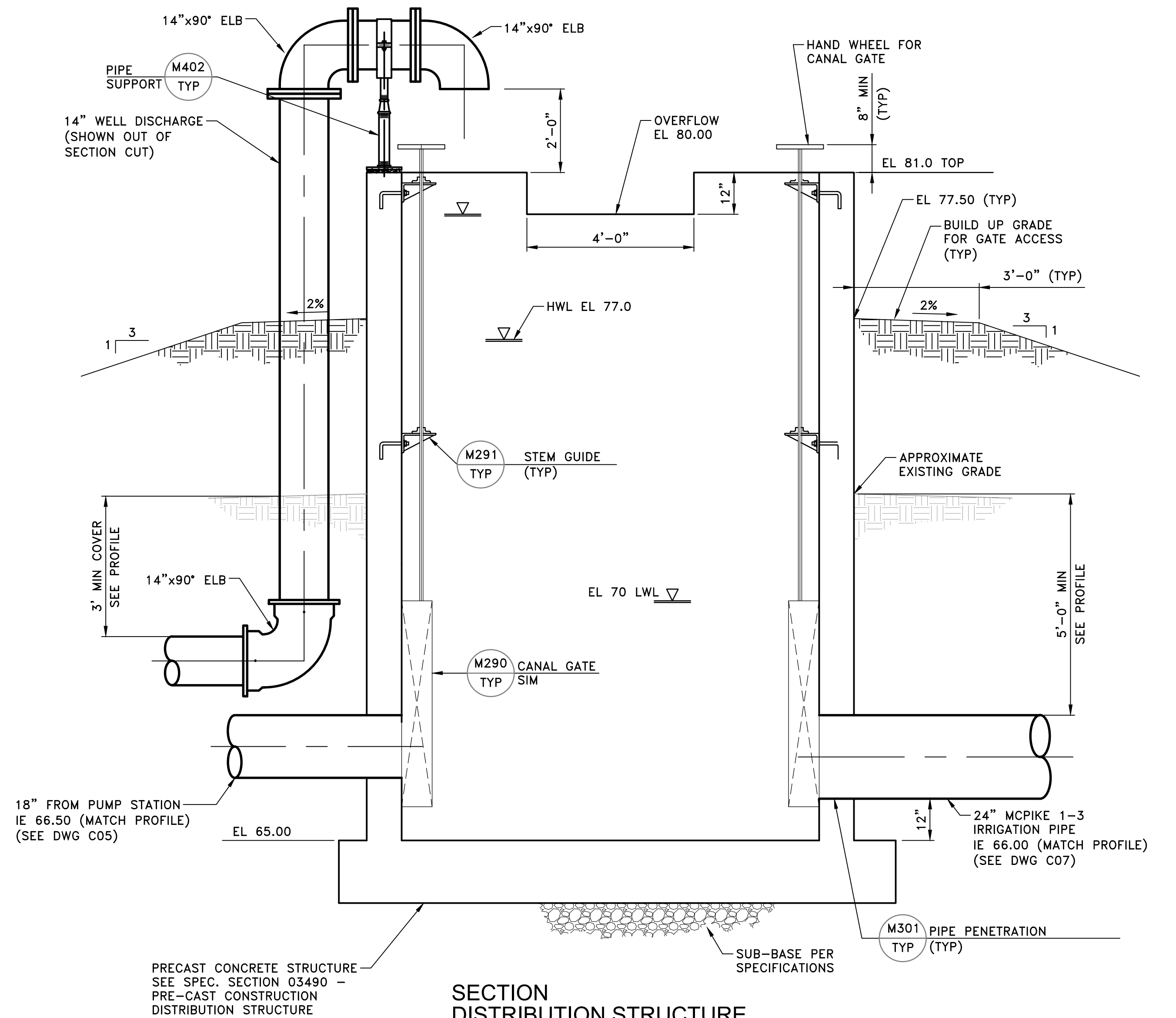
Revision Sheet Drawing No.

18 of 41

C10



PLAN DISTRIBUTION STRUCTURE
1/2" = 1'-0"



SECTION DISTRIBUTION STRUCTURE
1/2" = 1'-0"

- NOTES:**
- THREE GATES WILL BE SIZED AS SHOWN TO MATCH PIPE SIZE.
 - GATES WILL HAVE A MAIMUM SEATING HEAD AND UNSEATING HEAD OF 13.5 FEET.
 - WILL BE FLAT BACK WITH AN UPWARD OPENING AND SEAL ALL SIDES.
 - INSTALL ALL GATES PER MANUFACTURER SPECIFICATIONS.

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**MCPIKE DISTRIBUTION STRUCTURE
PLAN AND SECTION**

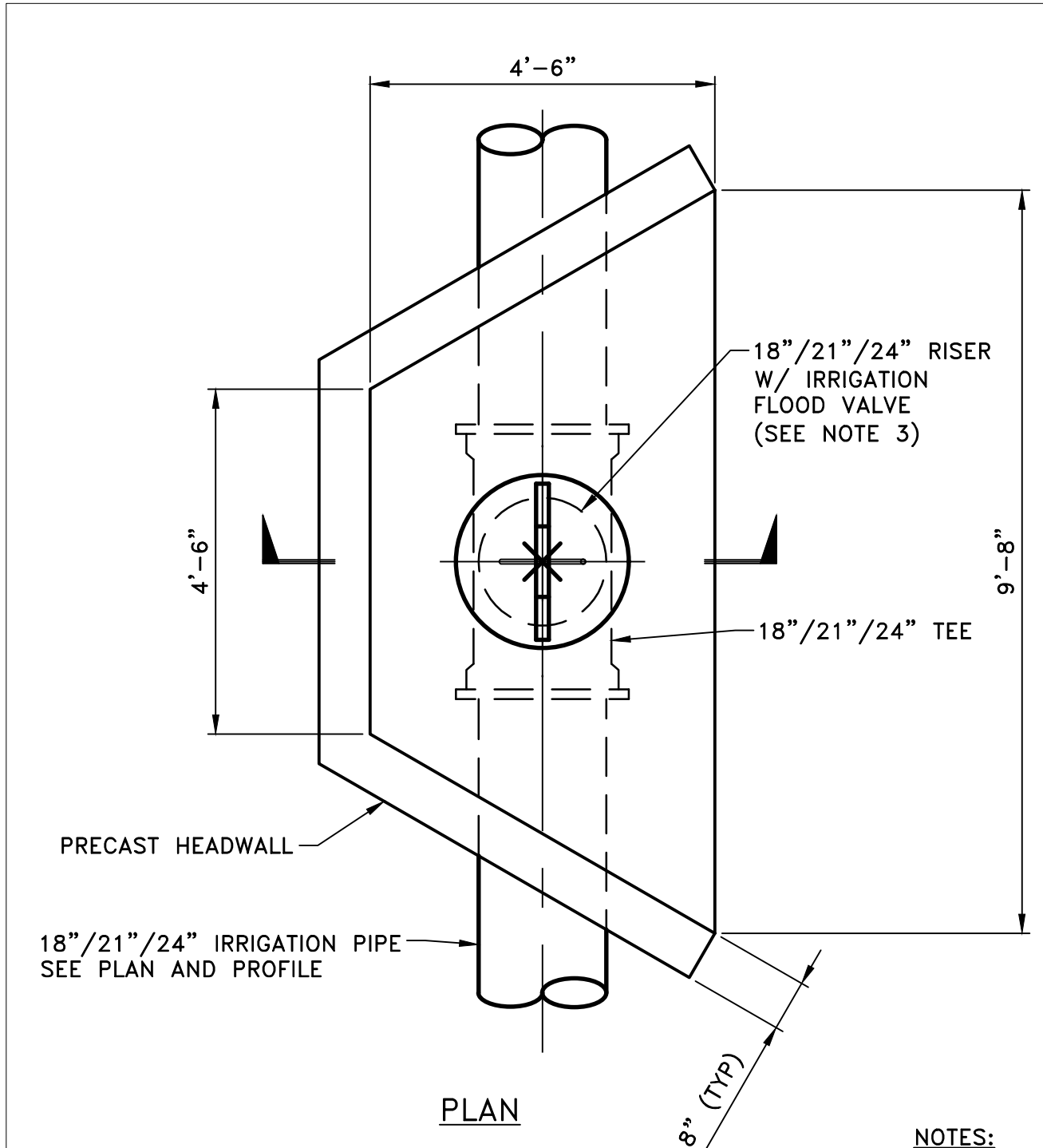
Project No. 2002005593

Scale SCALE

Revision Sheet 19 of 41

Drawing No. **C11**

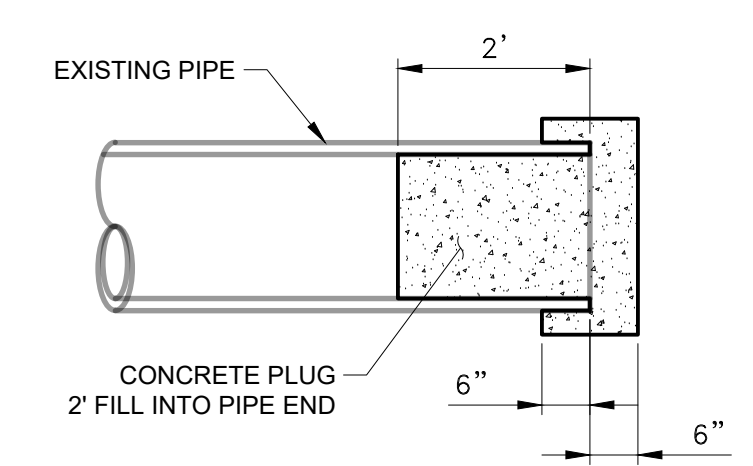
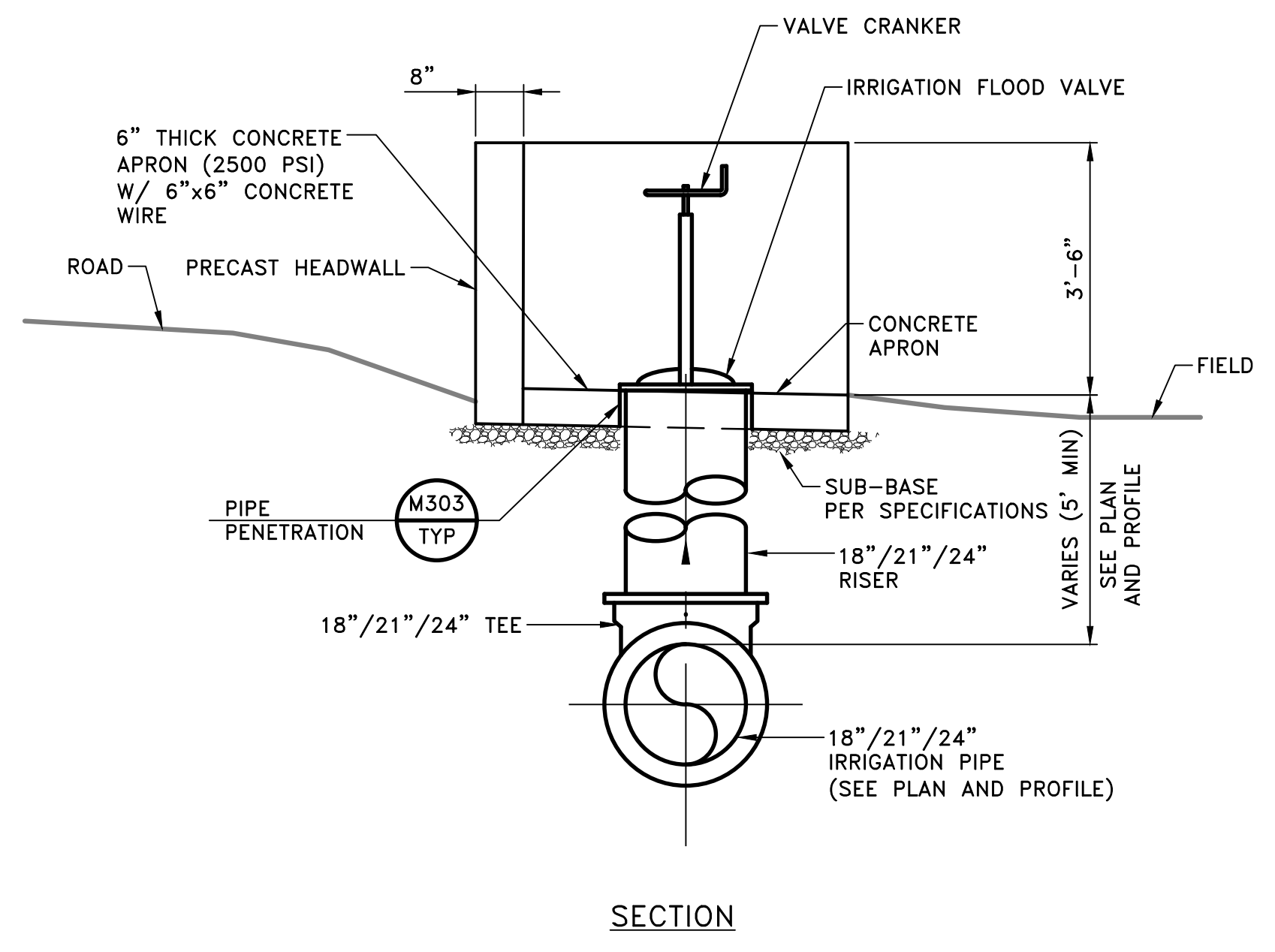
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NOTES:

1. CONTRACTOR TO DETERMINE CONNECTION TO FLOOD VALVE
2. IRRIGATION VALVES ARE OWNER SELECTED. MINIMUM DUTY CONDITION OF 22 FEET OF HEAD
3. FOR 18" AND 21" RISER USE 20" FLOOD VALVE. FOR 24" RISER, USE 24" FLOOD VALVE
4. RESTRAIN PIPE REQUIRED FOR PRESSURE TEST, INCLUDING RISER WITH TEMPORARY RETRAINED CAP OR PLUG. AFTER PRESSURE TEST, INSTALL IRRIGATION FLOOD VALVE. ATTACH IRRIGATION VALVE TO RISER PIPE SUFFICIENT TO ACHIEVE THE VALVE'S RATED PRESSURE CAPACITY. SUBMIT DETAIL FOR APPROVAL.

A PRE-CAST IRRIGATION HEADER
 TYP 1/2" = 1'-0"



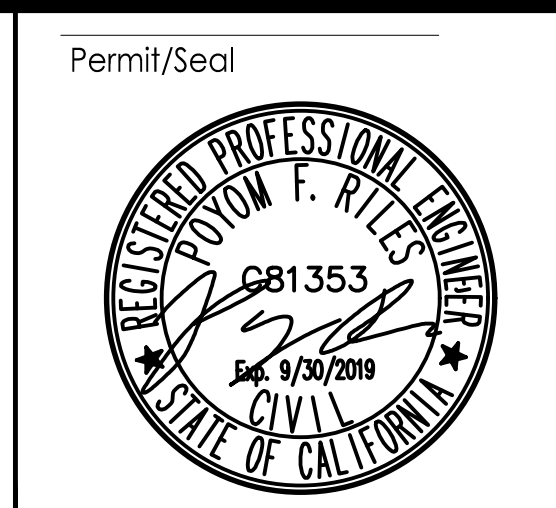
2 CONCRETE PLUG AT PIPE
 TYP

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MISCELLANEOUS CIVIL DETAILS

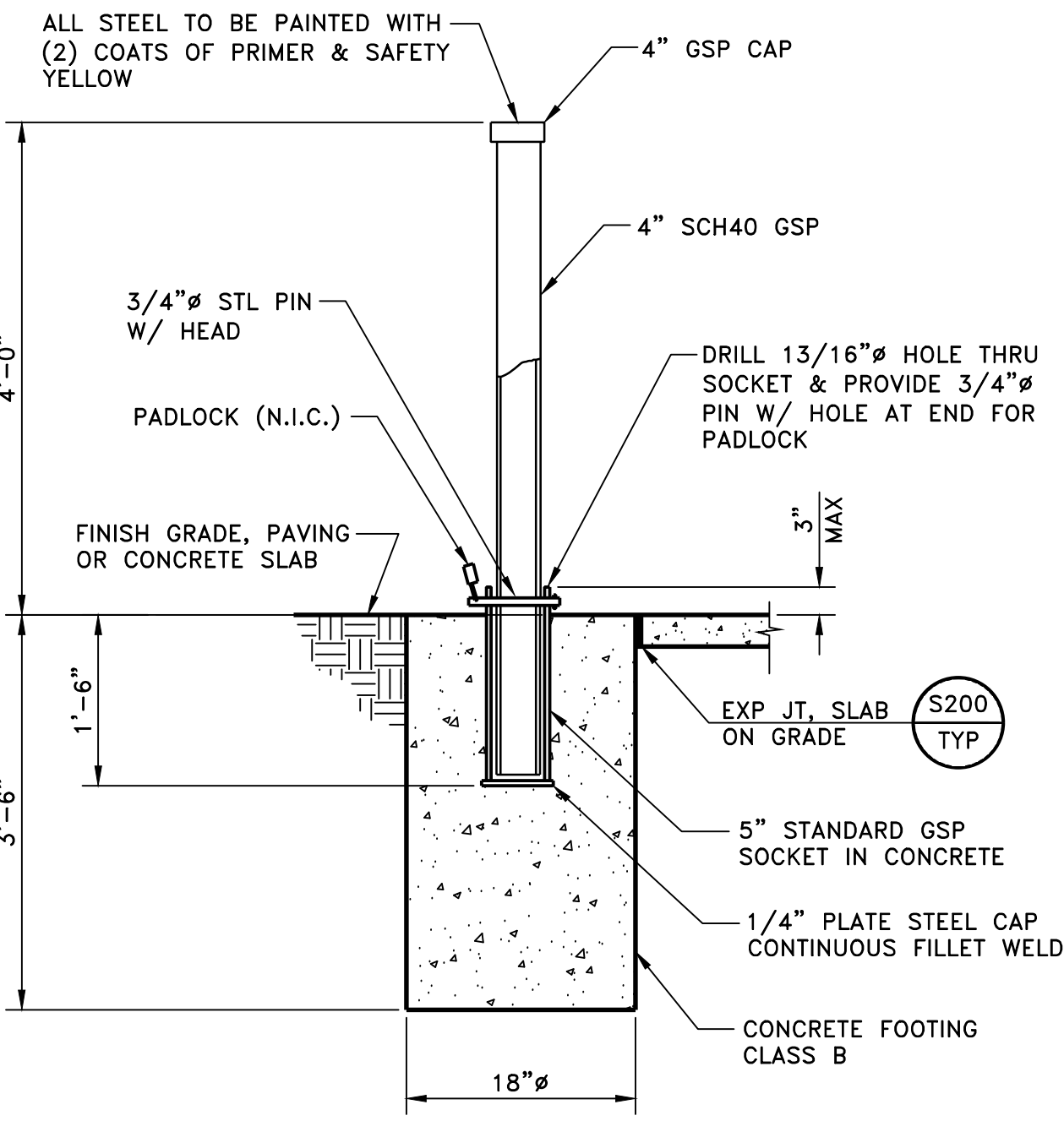
Project No. 2002005593

Scale

Revision Sheet Drawing No.

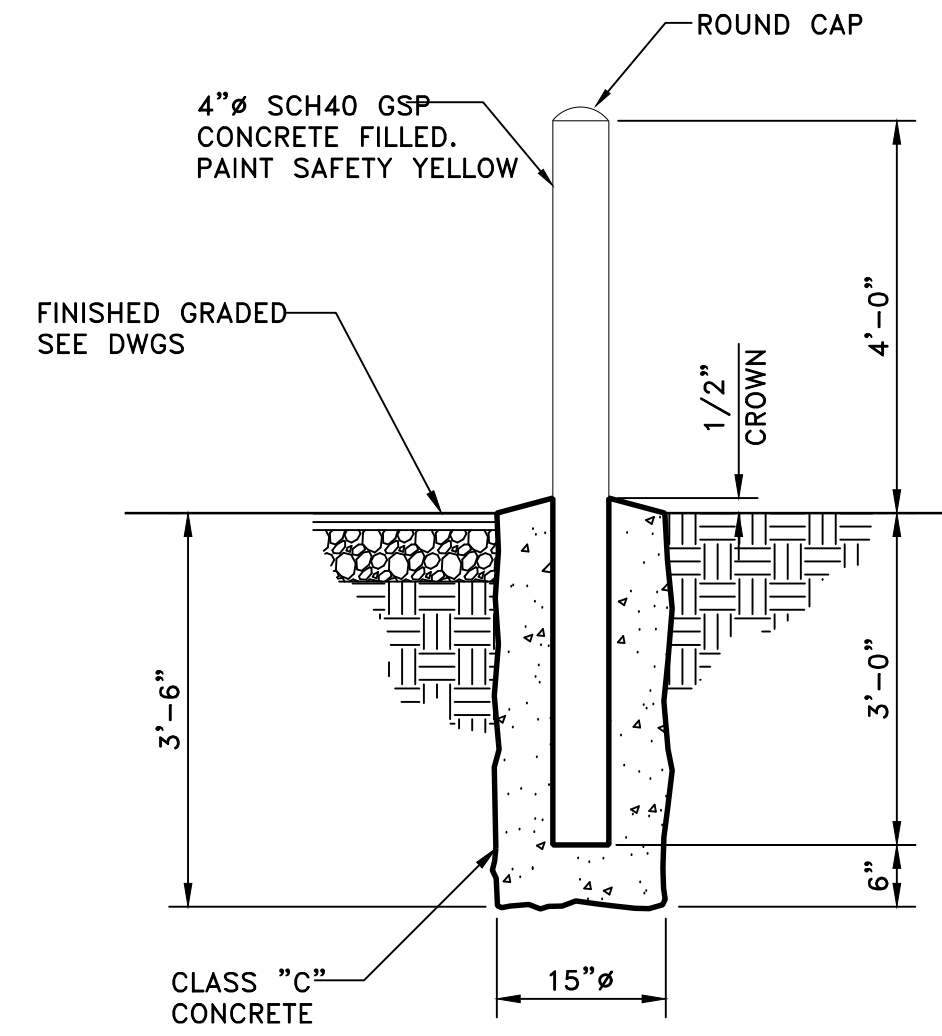
20 of 41

C12



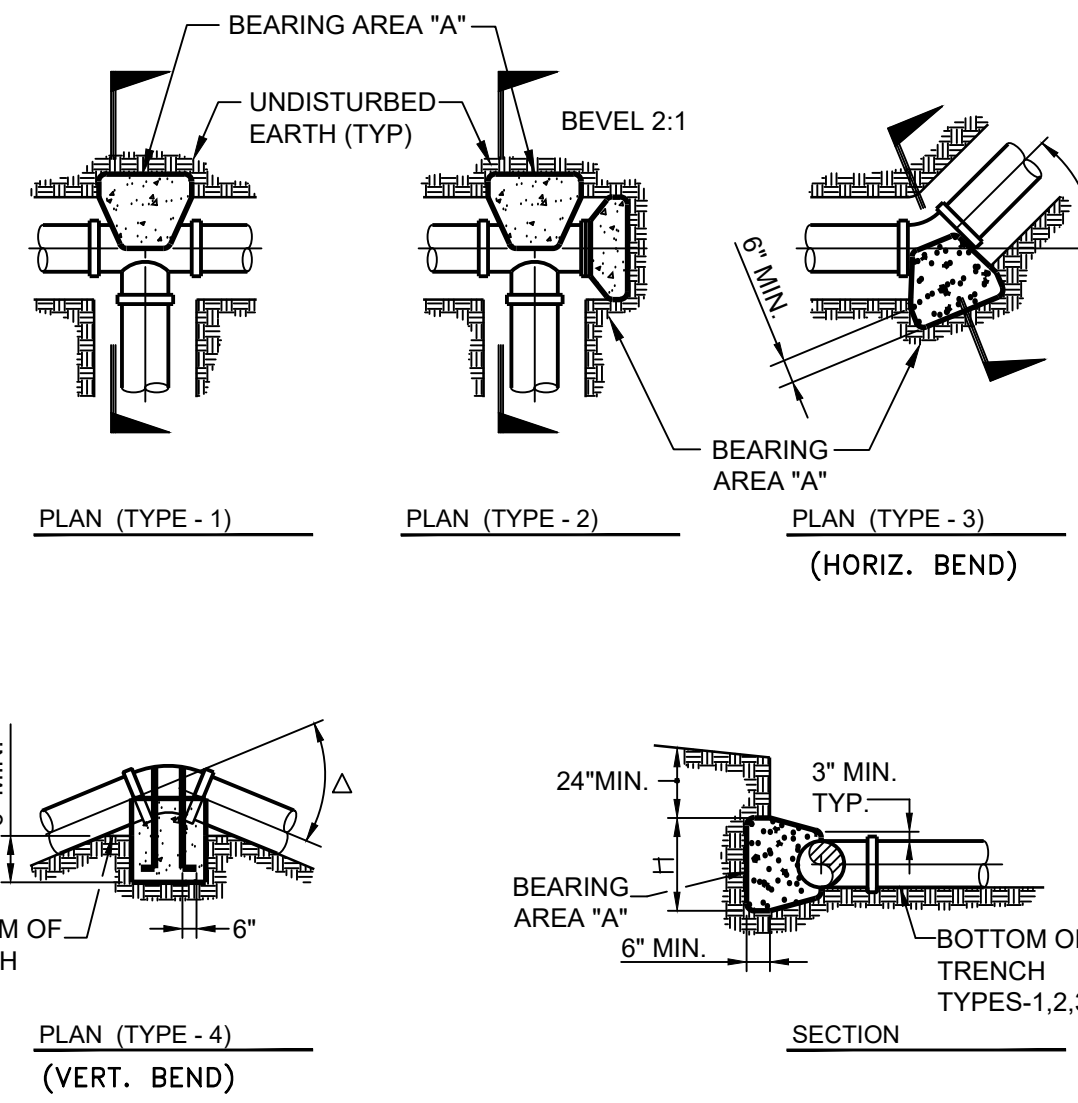
REMOVABLE POST
SCALE: NONE

C205
TYP



BARRIER POST
SCALE: NONE

C200
TYP



NOTES:

- THRUST BLOCKS ARE ONLY ALLOWED AT LOCATIONS SPECIFIED BY PIPE SERVICE OR AS APPROVED BY THE ENGINEER. PIPE TEST PRESSURE LESS THAN OR EQUAL TO 10 PSI DO NOT REQUIRE RESTRAINT, TEST PRESSURE GREATER THAN 10 PSI REQUIRE RESTRAINT. AREAS GIVEN ARE FOR 10 PSI, ADJUST AREAS ACCORDING TO TEST PRESSURE. SEE SPECIFICATION SECTION 15010.
- BLOCKS TO BE POURED AGAINST UNDISTURBED SOIL.
- JOINTS AND FACE OF PLUGS SHALL BE KEPT CLEAN OF CONCRETE.
- COAT REBAR WITH TWO COATS OF KOPPERS 505, TNEMEC 46-450, OR EQUAL, 15 MILS EACH COAT
- MAXIMUM PRESSURE 22 FEET OF HEAD.

TYPICAL THRUST BLOCK
SCALE: NONE

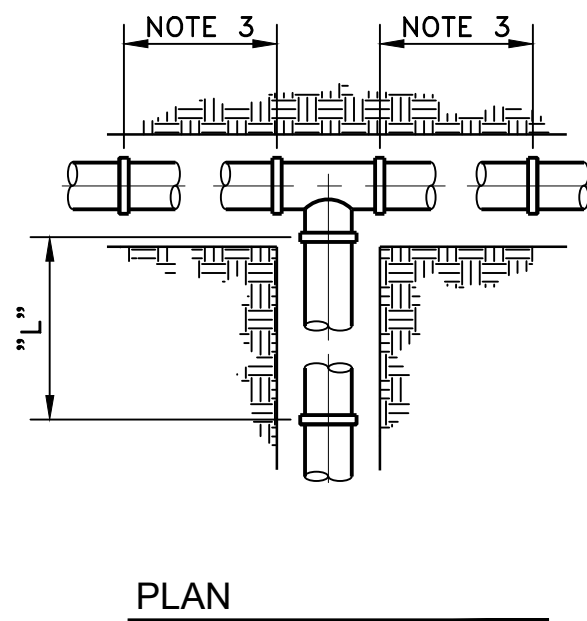
THRUST BLOCKS SCHEDULE

PIPE DIA. (in.)	TEST PEASURE (P.S.I.)	THRUST BLOCK BEARING AREA "A" (S.F.)				ANCHOR BLOCK VOL. OF CONCRETE (C.Y.)	
		Δ 90°	Δ 45°	Δ 22.5°	Δ 11.25°	TEE OR BULKHEAD	
8"	10	0.5 0.16	0.3 0.10	0.1 0.03	0.1 0.03	0.3	0.10
10"	10	0.8 0.26	0.4 0.13	0.2 0.07	0.1 0.03	0.5	0.16
12"	10	1.1 0.36	0.6 0.19	0.3 0.10	0.2 0.07	0.8	0.26
14"	10	1.5 0.48	0.8 0.26	0.4 0.13	0.2 0.07	1.1	0.36
16"	10	2.0 0.65	1.1 0.37	0.5 0.17	0.3 0.10	1.4	0.47
18"	10	2.5 0.83	1.4 0.47	0.7 0.23	0.3 0.10	1.8	0.60
20"	10	3.1 1.00	1.7 0.57	0.9 0.29	0.4 0.13	2.2	0.73
24"	10	4.4 1.42	2.4 0.77	1.2 0.39	0.6 0.19	3.1	1.00
30"	10	6.9 2.23	3.8 1.23	1.9 0.61	1.0 0.33	4.9	1.58
36"	10	10.0 3.23	5.4 1.74	2.8 0.90	1.4 0.45	7.1	2.30
42"	10	13.6 4.39	7.4 2.39	3.8 1.23	1.9 0.61	9.6	3.10

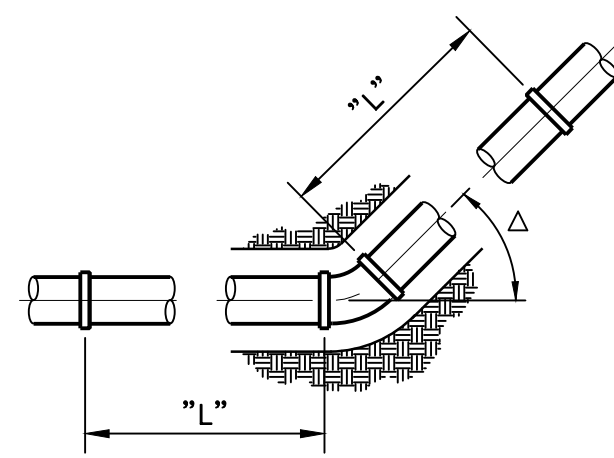
REBAR SIZES

PIPE SIZE	Δ	REBAR
6"-10"	0-90°	#5
12"-20"	0-225°	#5
24"	0-225°	#6
12"-20"	45°	#7
12"-16"	90°	#8

SEE NOTE 4



PLAN



PLAN

RESTRAINED LENGTH SCHEDULE

PIPE DIA. (in.)	TEST PEASURE (P.S.I.)	LENGTH "L" (FT)				
		Δ 45°	Δ 90°	TEE RUN	TEE BRANCH	REDUCER
4	100	6	14	NOTE 4	36	
6	100	8	19	NOTE 4	54	
8	100	10	25	NOTE 4	74	
10	100	12	30	NOTE 4	79	
12	100	14	35	NOTE 4	97	64 (12"x 8")
14	100	16	39	NOTE 4	112	
16	100	18	44	NOTE 4	119	
18	100	20	48	NOTE 4	124	93 (18"x 12)
20	100	22	52	NOTE 4	139	
24	100	25	60	NOTE 4	168	

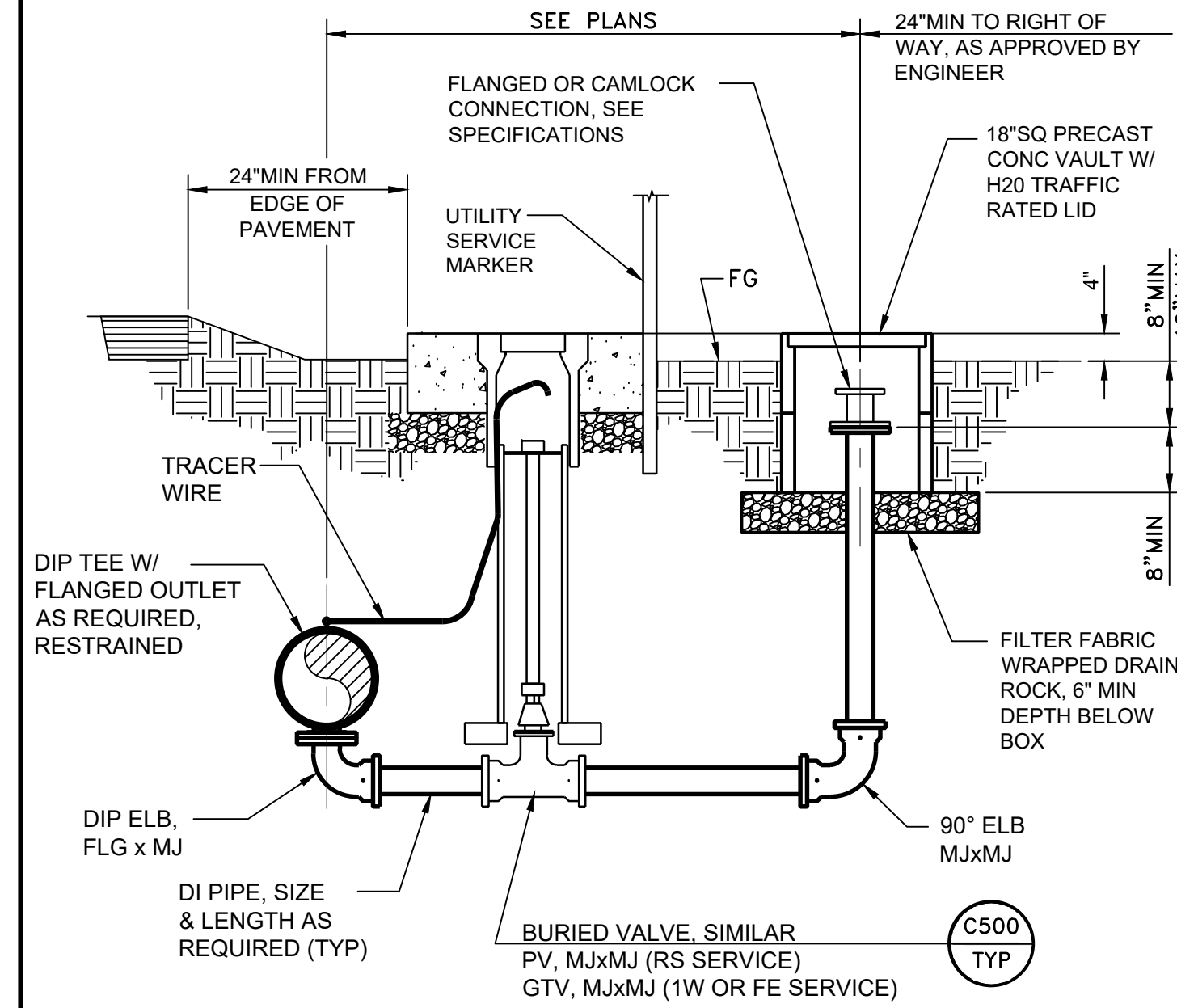
NOTES:

- PIPE JOINTS AND FITTINGS SHALL BE RESTRAINED A MINIMUM LENGTH AS SHOWN IN THE ABOVE TABLE.
- PIPE TEST PRESSURES LESS THAN OR EQUAL TO 10 PSI DO NOT REQUIRE RESTRAINT; TEST PRESSURE GREATER THAN 10 PSI REQUIRE RESTRAINT. LENGTHS GIVEN ABOVE ARE FOR 100 PSI. ADJUST LENGTHS ACCORDING TO TEST PRESSURE (EG. FOR 150 PSI-MULTIPLY SCHEDULE LENGTH VALUES BY 1.5). SEE SPECIFICATION SECTION 15010 FOR TEST PRESSURES.
- CONTRACTOR SHALL INSTALL ONE FULL LENGTH PIPE EITHER SIDE OF TEE RUN.
- TEE RUN RESTRAINT SHALL BE PER FITTING ADJACENT TO TEE AS REQUIRED.
- MAXIMUM PRESSURE 22 FEET OF HEAD.

PIPE RESTRAINED LENGTH SCHEDULE

SCALE: NONE

C508
TYP



NOTES:

- ALL PIPE SHALL BE DUCTILE IRON WITH RESTRAINED JOINTS.
- SEE PLANS FOR BLOW-OFF SIZE.

BLOW-OFF VALVE

SCALE: NONE

C531
TYP

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TYPICAL CIVIL DETAILS 1

Project No. 2002005593

Scale SCALE

Revision Sheet Drawing No.

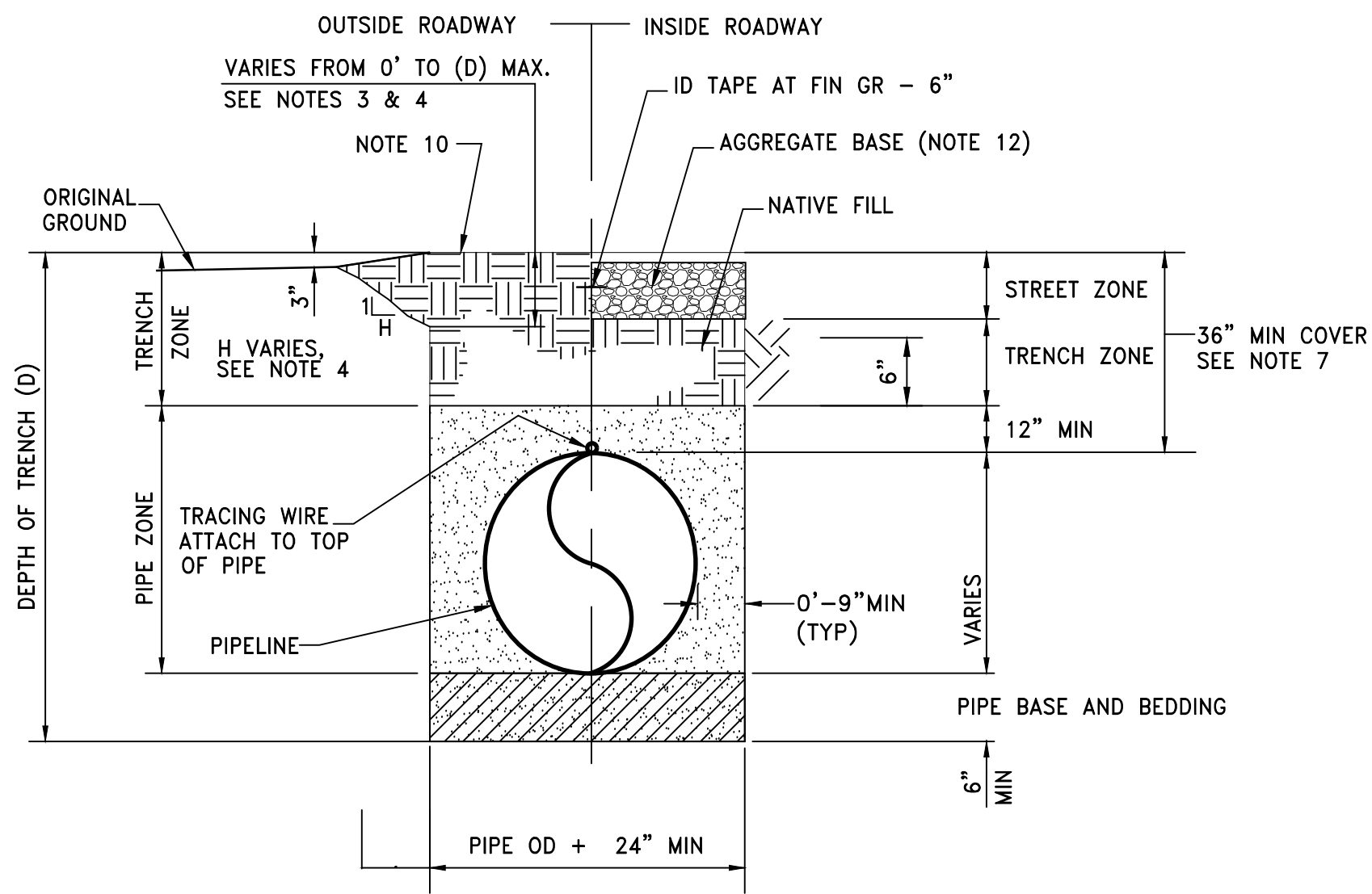
21 of 41

C20

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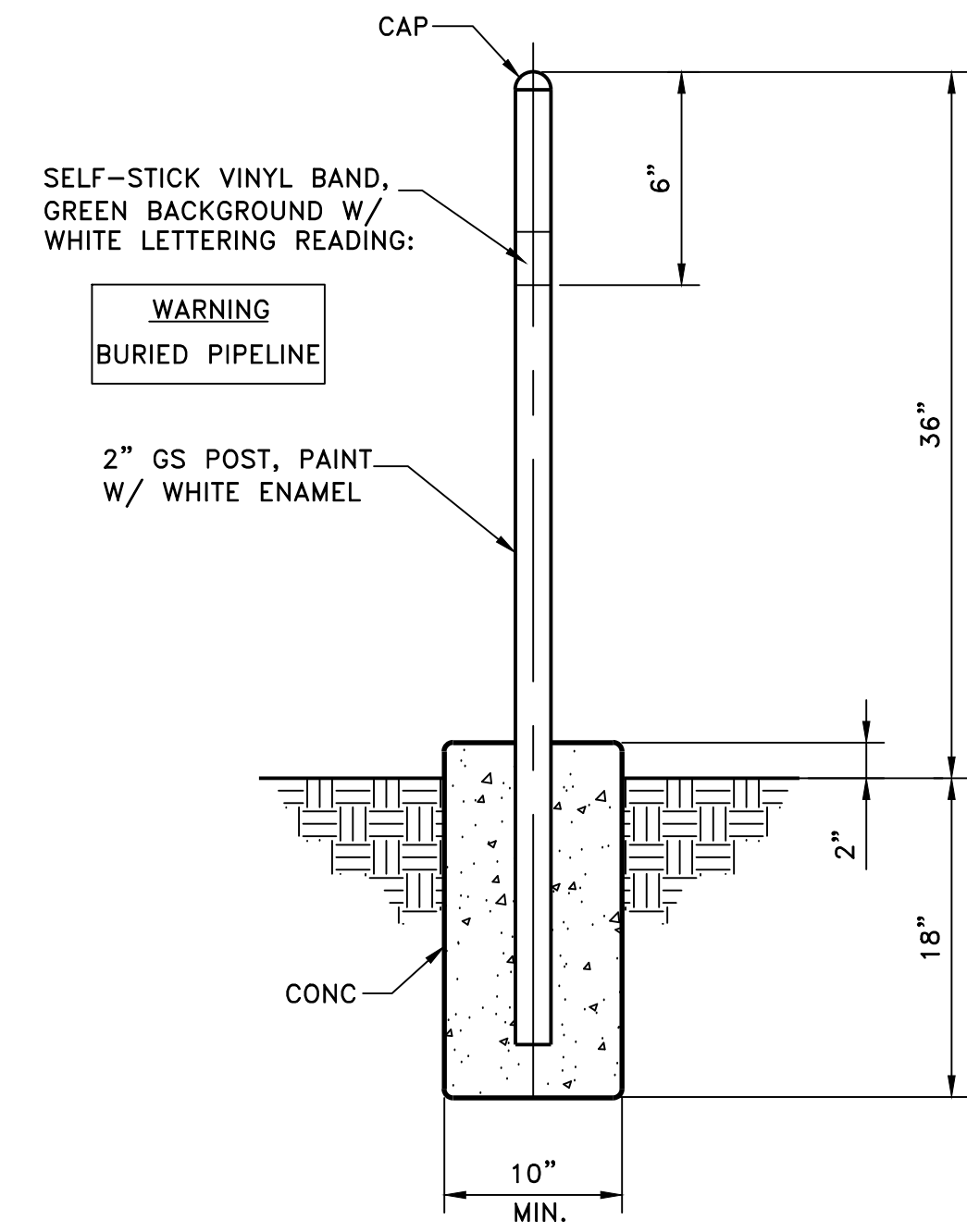
TRENCH NOTES:

1. PIPE BEDDING ZONE AND TRENCH ZONE BACKFILL SHALL BE COMPACTED PER SPECIFICATIONS.
2. TO AVOID PIPE DAMAGE, PIPE ZONE MATERIAL SHALL BE NON-ANGULAR WHEN PVC OR POLYETHYLENE PIPE IS USED.
3. ALL EXCAVATIONS SHALL COMPLY WITH APPLICABLE LOCAL, STATE, AND FEDERAL SAFETY REGULATIONS INCLUDING CURRENT OSHA EXCAVATION AND TRENCH SAFETY STANDARDS. RESULTS OF THE PRELIMINARY FIELD INVESTIGATIONS ARE INCLUDED IN CONTRACT SPECIFICATIONS.
4. CONTRACTOR TO DETERMINE ACCEPTABLE TRENCH SIDE SLOPES, IN ACCORDANCE WITH OSHA REQUIREMENTS.
5. FOR BACKFILL MATERIAL REQUIREMENTS, SEE SPECS. PONDING OR JETTING IS NOT AN ACCEPTABLE MEANS OF COMPACTION.
6. TYPICAL PIPE TRENCH DETAIL SHALL BE UTILIZED UNLESS NOTED OTHERWISE.
7. MINIMUM COVER OF 36" REQUIRED IN ROADWAYS. 60" MINIMUM COVER OUTSIDE ROADWAYS.
8. STREET ZONE SHALL MATCH EXISTING SECTION OR 12" AB, WHICHEVER IS GREATER.
9. LOCATING WIRE SHALL BE SOLID INSULATED, #10 AWG COPPER WIRE, SOFT DRAWN.
10. ALL TOP SOIL TO BE RESERVED TO COVER BACK EXCAVATIONS FOLLOWING CONSTRUCTION.
11. AERATE/DISK FARM SOILS AFTER CONSTRUCTION, AS APPROVED BY ENGINEER.
12. WHERE THERE IS NO AGGREGATE FOUND ON ROAD WAY, RE-COMPACT SOIL TO 95% DENSITY.



TYPICAL PIPE TRENCH
SCALE: NONE

1
TYP

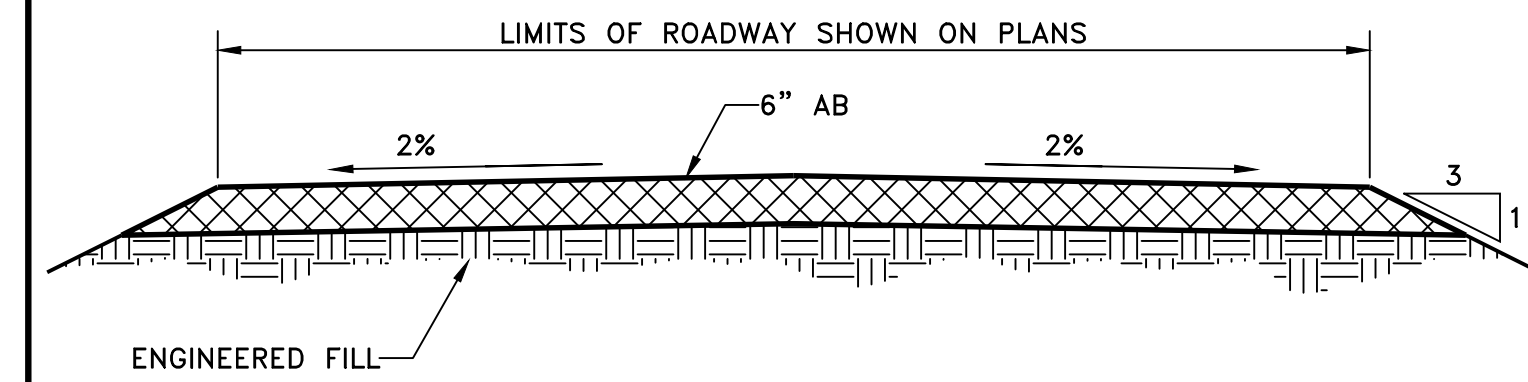


NOTE:
IF PIPE MARKER IS OFFSET TO ALLOW ACCESS
INDICATE OFFSET DISTANCE AND DIRECTION.

WARNING
BURIED PIPELINE
6FT TO THE NORTH

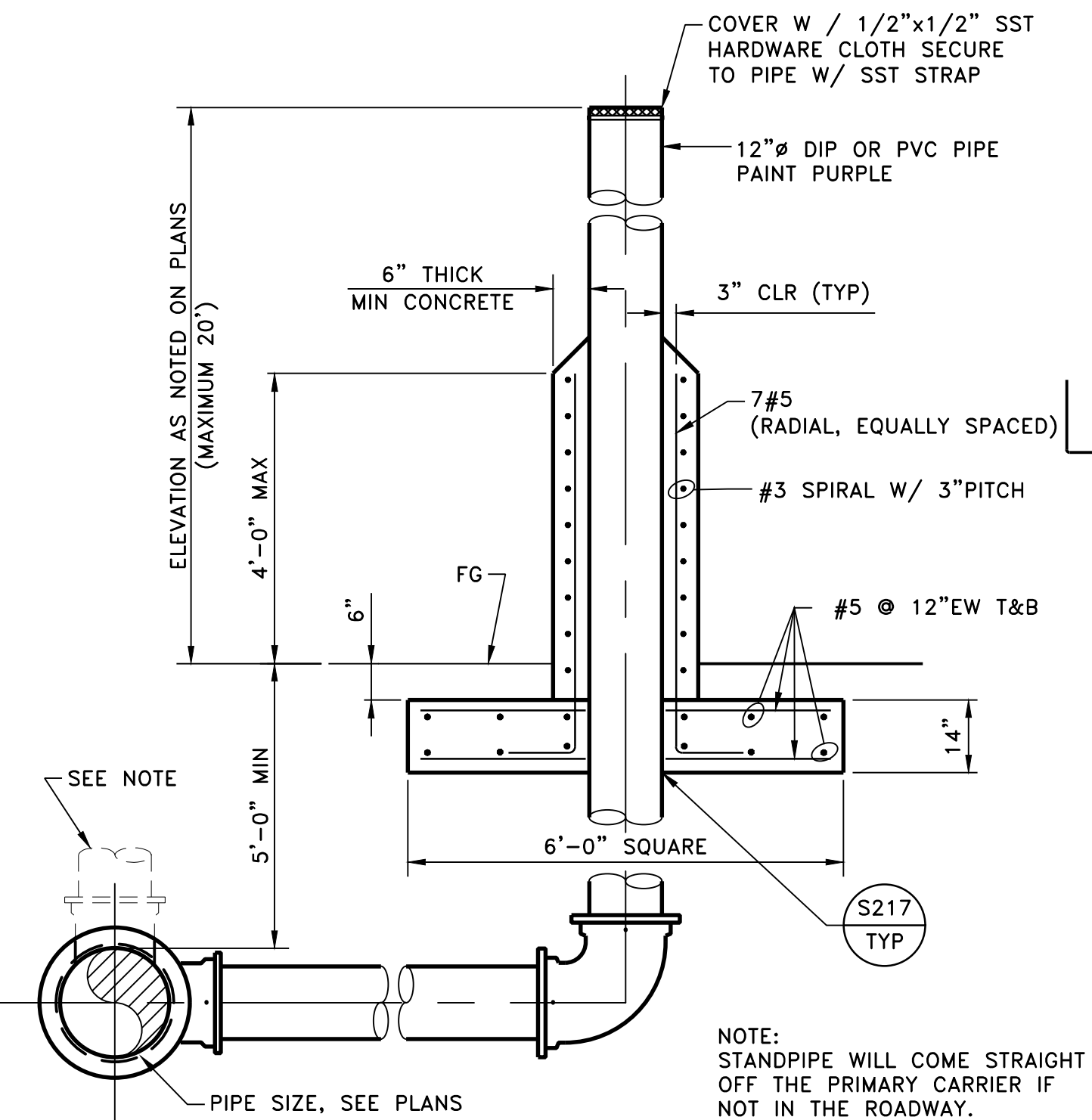
PIPELINE MARKER
SCALE: NONE

2
TYP



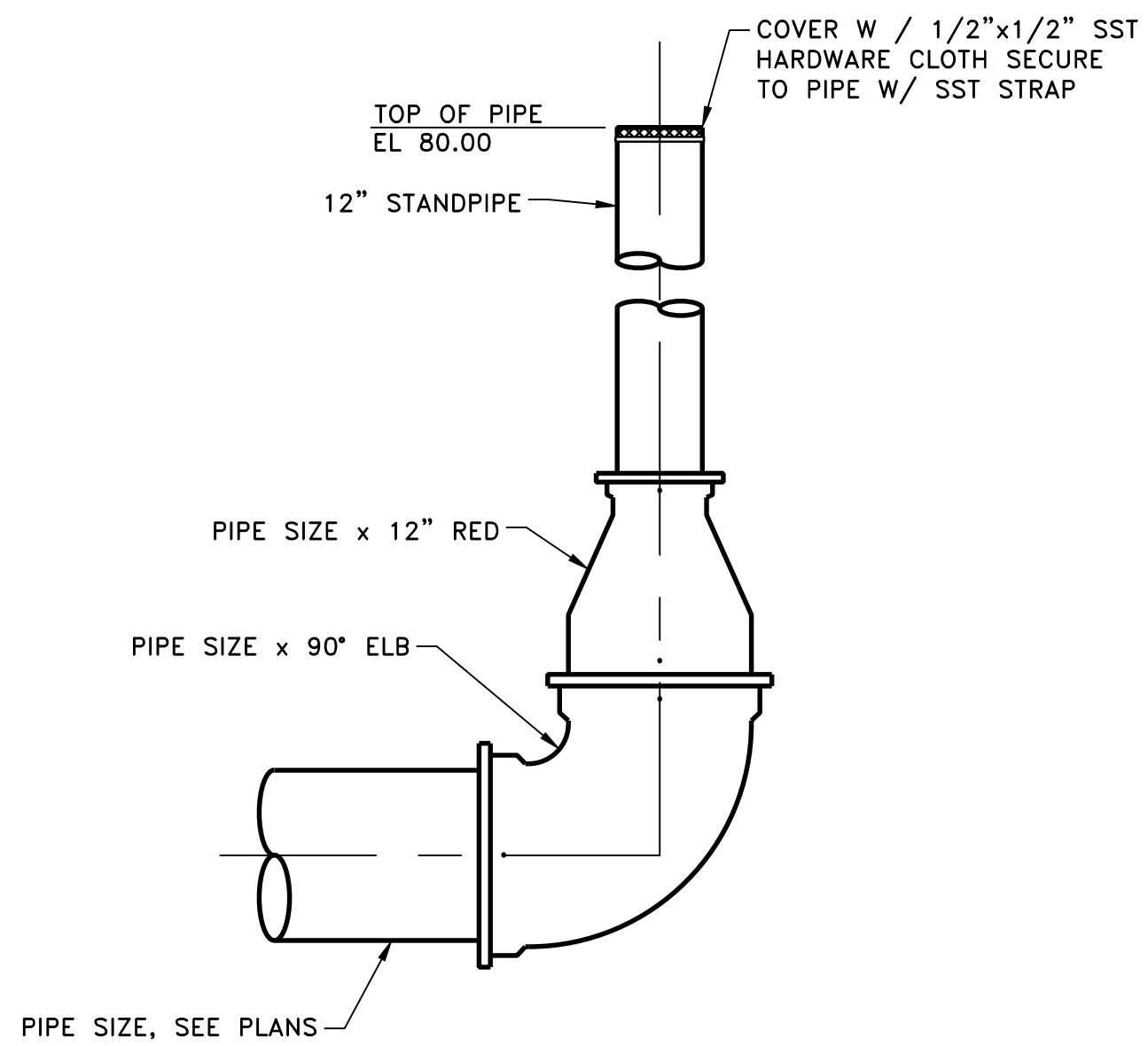
AGGREGATE BASE ROADWAY
SCALE: NONE

3
TYP



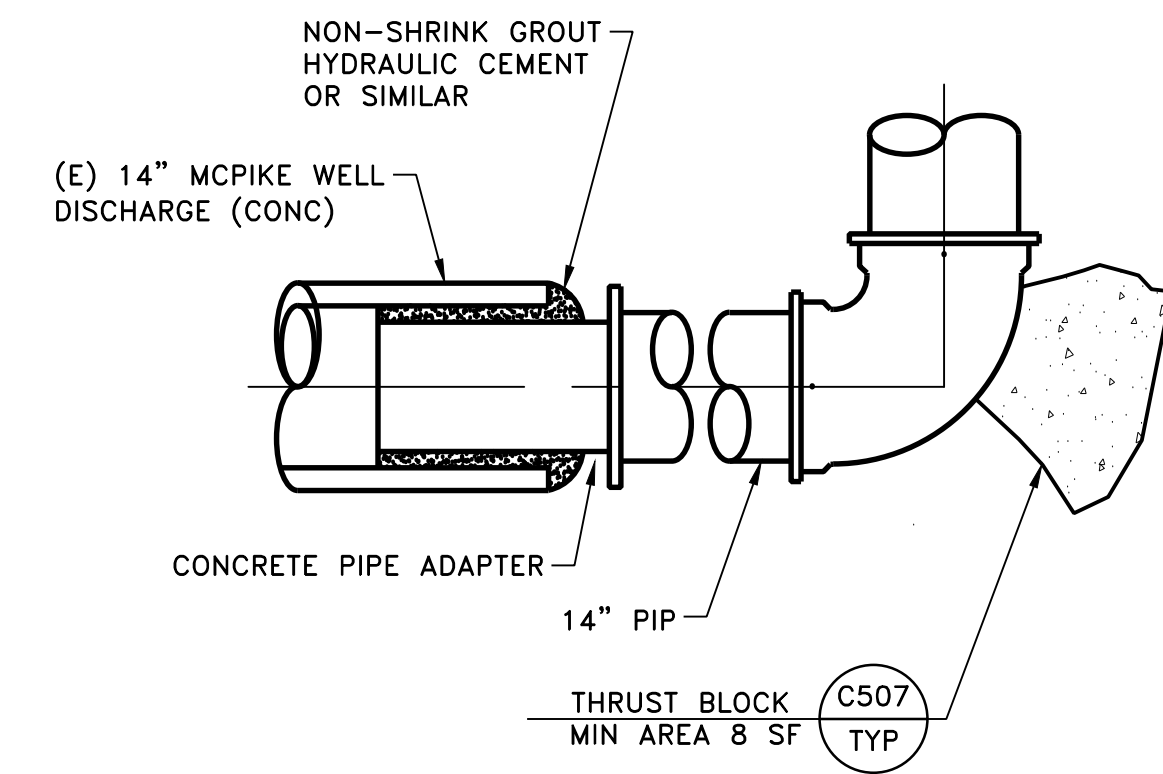
TYPICAL STANDPIPE
NTS

4
TYP



TYPICAL STANDPIPE AT END OF PIPE
NTS

5
TYP



NOTES:

1. CONDITION OF EXISTING WELL DISCHARGE IS UNKNOWN, CONTRACTOR TO VERIFY METHOD OF CONNECTION
2. CUT EXISTING PIPE BACK TO A LOCATION THAT IS SOUND AND FREE OF CRACKS.
3. PREPARE CONCRETE PIPE ADAPTER SURFACE TO PROVIDE MAXIMUM SEAL.
4. MAXIMUM OPERATING PRESSURE OF 10 PSI.
5. INSERT PIPE SHALL BE 14" PVC, DR18 (UNDERGROUND) AND 14" DIP (FROM 3 FEET BELOW GRADE TO AND INCLUDING ABOVE GRADE). PROVIDE FABRICATED TRANSITION FITTING BETWEEN MATERIALS. ALL PIPE SHALL BE RESTRAINED. THRUST BLOCK MAY BE UTILIZED.

MCPIKE WELL CONNECTION DETAIL
NTS

6
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TYPICAL CIVIL DETAILS 2

Project No. 2002005593

Scale

Revision Sheet Drawing No.

22 of 41

C21

ABBREVIATIONS:

ADDL	ADDITIONAL
AB	AGGREGATE BASE, ANCHOR BOLT
AC	ASPHALT CONCRETE
ACP	ASBESTOS CEMENT PIPE
AL	ALUMINUM
ALT	ALTERNATE
APPROX	APPROXIMATE (LY)
ARCH	ARCHITECTURAL
⊙	AT
BETW	BETWEEN
BEV	BEVELED
BLKG	WOOD BLOCKING
BOT	BOTTOM
BRG	BEARING
BLDG	BUILDING
BF	BOTTOM OF FOOTING
B/W	BACK OF WALL
BIT CTD	BITUMINOUS COATED
CHK PL	CHECKERED PLATE
CLR	CLEAR
CL	CENTER LINE
CLSM	CONTROLLED LOW STRENGTH MATERIAL
CC	CENTER TO CENTER
CMU	CONCRETE MASONRY UNIT
COL	COLUMN
CONC	CONCRETE
CJ	CONSTRUCTION JOINT
CONT	CONTINUOUS
CT J	CONTROL JOINT
CR J	CONTRACTION JOINT
CIP	CAST-IN-PLACE
CIDH	CAST-IN-DRILLED-HOLE
CTR	CENTER (ED)
CG	CENTER OF GRAVITY
CONST	CONSTRUCTION
COORD	COORDINATE
CSK	COUNTER SINK
CAB	CRUSHED AGGREGATE BASE
CAP	CORRUGATED ALUMINUM PIPE
D	DEPTH
db	BAR DIAMETER
DF	DOUGLAS FIR
DEMO	DEMOLITION
DIA	DIAMETER
DIM	DIMENSION
DN	DOWN
DWG	DRAWING
DL	DEAD LOAD
DIST	DISTANCE
DD	DOWN DRAIN
DIAPH	DIAPHRAGM
DSA	DIVISION OF STATE ARCHITECT
EXIST. (E)	EXISTING
EA	EACH
EJ	EACH FACE
EK	EXPANSION JOINT
EL, ELEV	ELEVATION
EQ	EQUAL
EQUIP	EQUIPMENT
EXT	EXTERIOR
EMBED	EMBEDMENT
EN	EDGE NAILING
ES	EACH SIDE
EW	EACH WAY
ENGR	ENGINEER, ENGINEERING
EXC	EXCAVATION
EXP	EXPANSION
FAB	FABRICATE
F & I	FURNISH AND INSTALL
FB	FACE OF BLOCK
FC	FACE OF CONCRETE
FD	FLOOR DRAIN
FF	FINISHED FLOOR, FACE OF FRAMING
FDN	FOUNDATION
FG	FINISHED GRADE
FS	FINISHED SURFACE, FACE OF STUD
F/S	FAR SIDE
FLG	FLANGE
FN	FIELD NAILING
FTG	FOOTING
FW	FACE OF WALL
FT	FEET (FOOT)
GA	GAGE
GAF	GALVANIZE AFTER FABRICATION
GALV	GALVANIZED
GS	GALVANIZED STEEL
GR	GUARD RAILING, GRADE
GTR	GUTTER
GRTG	GRATING
GSP	GALVANIZED STEEL PIPE
H	HIGH OR HEIGHT
HA	HEADED ANCHOR
HR	HANDRAIL
HSB	HIGH STRENGTH BOLT
HORIZ	HORIZONTAL
HW	HEAD WALL
HS	HIGH STRENGTH

ABBREVIATIONS (Continued):

ID	INSIDE DIAMETER
INCL	INCLUDING
INSP	INSPECTION
INV	INVERT
IE	INVERT ELEVATION
IF	INSIDE FACE
IN	INCH
JT	JOINT
JCT	JUNCTION
KP	KICK PLATE
KIPS	KILO POUNDS
L	LENGTH
LS	LAG SCREW
LAT	LATERAL
LB	POUND
LF	LINEAR FOOT
LL	LIVE LOAD
LT	LEFT
LONG	LONGITUDE
LONGIT	LONGITUDINAL
LTS	LIME TREATED SOIL
MANUF	MANUFACTURER
MAX	MAXIMUM
MB	MACHINE BOLT
MECH	MECHANICAL
MIN	MINIMUM
MPH	MILES PER HOUR
MISC	MISCELLANEOUS
(N)	NEW
NS	NON-SHRINK
N/S	NEAR SIDE
NTS	NOT TO SCALE
NO., NOS	NUMBER, NUMBERS
OC	ON CENTER
OD	OUTSIDE DIAMETER
OF	OUTSIDE FACE
OG	ORIGINAL GROUND
OE	OUTER EDGE
OH	OVERHEAD, OPPOSITE HAND
OPNG	OPENING
OPP	OPPOSITE
O-O	OUT TO OUT
PVMT	PAVEMENT
PL	PLATE
PREFAB	PREFABRICATED
PSI	POUNDS PER SQUARE INCH
P/S	PRESTRESSED
R	RADIUS
REINF	REINFORCEMENT
RC	REINFORCED CONCRETE
RCB	REINFORCED CONCRETE BOX
RCE	REGISTERED CIVIL ENGINEER
RET	RETAINING
RT	RIGHT
REQD	REQUIRED
SEC	SECTION
SF	SQUARE FOOT
SIM	SIMILAR
SPEC	SPECIFICATIONS
SHT	SHEET
STR	STRUCTURE/STRUCTURAL
SG	SUBGRADE
STD	STANDARD
SOG	SLAB ON GRADE
SP	STRUCTURAL PLYWOOD
SS	STAINLESS STEEL
SSB	STAINLESS STEEL BOLT
ST	STEEL
STIFF	STIFFENER
STAG	STAGGERED
STIR	STIRRUPS
SQ	SQUARE
SYMM	SYMMETRICAL
T & B	TOP AND BOTTOM
TF	TOP OF FOOTING
TOB	TOP OF BLOCK
TOC	TOP OF CONCRETE
TOG	TOP OF GRATING
TOS	TOP OF STEEL
TS	TUBE STEEL
TOW	TOP OF WALL
TYP	TYPICAL
TEMP	TEMPORARY
UG	UNDER GROUND
UNO (UON)	UNLESS NOTED OTHERWISE
VERT	VERTICAL
VOL	VOLUME
W	WIDTH
WS	WATERSTOP
WP	WORKING POINT
WH	WEEP HOLE
WM	WIRE MESH
WSP	WELDED STEEL PIPE
WWF	WELDED WIRE FABRIC
W/	WITH
W/O	WITHOUT

INSPECTION / OBSERVATION NOTES:

A. SPECIAL INSPECTIONS:

GENERAL: IN ADDITION TO THE INSPECTIONS REQUIRED BY 110 OF THE CURRENT CBC, THE OWNER SHALL EMPLOY A SPECIAL INSPECTOR DURING CONSTRUCTION ON THE FOLLOWING TYPES OF WORK. ALL INSPECTIONS SHALL BE PERFORMED IN ACCORDANCE WITH CHAPTER 17 OF THE CURRENT CBC. REFER TO CHAPTER 17 FOR ADDITIONAL REQUIREMENTS OF THE SPECIAL INSPECTOR.

- 1. CONCRETE: DURING THE TAKING OF TEST SPECIMENS AND PLACING OF ALL REINFORCED CONCRETE.
 - 2. REINFORCING STEEL:
 - a. DURING THE PLACING OF REINFORCING STEEL, FOR ALL STRUCTURAL CONCRETE
 - b. DURING THE PLACEMENT OF ALL CONCRETE INSERTS.
 - 3. WELDING: DURING ALL STRUCTURAL WELDING INCLUDING WELDING OF REINFORCING STEEL. SUBMIT FIELD WELDERS CERTIFICATE TO THE DSA APPROVED WELDING INSPECTOR FOR APPROVAL PRIOR TO THE START OF WELDING.
 - 4. HIGH STRENGTH BOLTING: IN ACCORDANCE WITH CBC REQUIREMENTS.
 - 5. STRUCTURAL MASONRY: IN ACCORDANCE WITH CBC REQUIREMENTS.
 - 6. PILING, DRILLED PIERS AND CAISSONS: DURING DRIVING AND TESTING OF PILES AND CONSTRUCTION OF CAST-IN-PLACE DRILLED PILES AND CAISSONS.
 - 7. SHOTCRETE: DURING THE TAKING OF TEST SPECIMENS AND PLACING OF SHOTCRETE PER CBC REQUIREMENTS.
 - 8. GLULAM FABRICATION INSPECTION PER 2337A.1.
 - 9. A REPRESENTATIVE OF THE CIVIL ENGINEER OF RECORD SHALL BE PRESENT DURING THE GRADING, EXCAVATION AND FOUNDATION CONSTRUCTION.
 - 10. ADHESIVE ANCHOR INSTALLATION: PERFORM SPECIAL INSPECTION IN ACCORDANCE WITH THE REQUIREMENTS OF THE CBC. THE SPECIAL INSPECTOR MUST RECORD PRODUCT DESCRIPTION (INCLUDING PRODUCT NAME), ADHESIVE EXPIRATION DATE, CONCRETE TYPE AND STRENGTH, ANCHOR DIAMETER AND STEEL GRADE, COMPLIANCE OF DRILL BIT WITH THE ICC-ES REPORT, HOLE DIAMETER AND LOCATION, CLEANLINESS OF HOLE AND ANCHOR, ADHESIVE APPLICATION, AND ANCHOR EMBEDMENT.
- B. STRUCTURAL OBSERVATIONS:**
- THE STRUCTURAL ENGINEER SHALL MAKE VISITS TO THE SITE TO OBSERVE GENERAL COMPLIANCE WITH THE APPROVED STRUCTURAL PLANS, SPECIFICATIONS AND CHANGE ORDERS. THE ENGINEER SHALL SUBMIT A STATEMENT IN WRITING TO THE BUILDING OFFICIAL STATING THE SITE VISITS HAVE BEEN MADE AND THAT ANY DEFICIENCIES NOTED HAVE BEEN CORRECTED.
- 1. OBSERVE FOUNDATION EXCAVATIONS AND REINFORCEMENT PLACEMENT PRIOR TO THE PLACING OF CONCRETE. PROVIDE 48 HR. NOTICE.
 - 2. OBSERVE EDGE NAILING ON PLYWOOD SHEAR WALLS AND ROOFS.
 - 3. OBSERVE THE CONNECTION OF SEISMIC TIES, STRAPS AND CONNECTORS.
 - 4. PERFORM ADDITIONAL OBSERVATIONS, IF REQUIRED IN THE OPINION OF THE STRUCTURAL ENGINEER.

GENERAL NOTES:

- 1. TYPICAL STRUCTURAL DETAILS AND NOTES SHALL APPLY TO ALL "S" SHEETS UNLESS OTHERWISE SHOWN OR NOTED ON PLANS.
- 2. DETAILS OF CONSTRUCTION NOT FULLY SHOWN SHALL BE OF THE SAME NATURE AS SHOWN FOR SIMILAR CONDITION.
- 3. CONSTRUCTION SHALL CONFORM TO ALL APPLICABLE CODES AND REGULATIONS.
- 4. PRIOR TO FABRICATION, SHOP DRAWINGS SHALL BE SUBMITTED FOR REVIEW BY THE ENGINEER ON ALL STRUCTURAL STEEL, METAL DECK, STRUCTURAL ALUMINUM, REINFORCING STEEL, CONST. JT. LAYOUT AND CONCRETE MIX DESIGN. SHOP DRAWINGS: CONTRACTOR AGREES THAT SHOP DRAWING SUBMITTALS PROCESSED BY THE ENGINEER ARE NOT CHANGE ORDERS AND THAT THE PURPOSE OF SHOP DRAWING SUBMITTALS BY THE CONTRACTOR IS TO DEMONSTRATE TO THE ENGINEER THAT THE CONTRACTOR UNDERSTANDS THE DESIGN CONCEPT BY INDICATING WHICH MATERIAL HE INTENDS TO FURNISH AND INSTALL AND BY DETAILING THE FABRICATION AND INSTALLATION METHODS HE INTENDS TO USE.
- 5. SAFETY NOTE: IT IS THE CONTRACTOR'S RESPONSIBILITY TO COMPLY WITH THE PERTINENT SECTIONS OF THE A) "CONSTRUCTION SAFETY ORDERS" ISSUED BY THE STATE OF CALIFORNIA, LATEST EDITION, AND ALL OSHA REQUIREMENTS AS THEY APPLY TO THIS PROJECT. THE ENGINEER AND THE OWNER DO NOT ACCEPT ANY RESPONSIBILITY FOR THE CONTRACTOR'S B) FAILURE TO COMPLY WITH THESE REQUIREMENTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADEQUATE DESIGN AND CONSTRUCTION OF ALL C) FORMS AND SHORING REQUIRED.
- 6. CONTRACTOR SHALL VERIFY ALL DIMENSIONS, ELEVATIONS, PROPERTY LINES, ETC. ON THE JOB.
- 7. CONTRACTOR SHALL NOTIFY THE ENGINEER WHERE A CONFLICT OCCURS ON ANY OF THE CONTRACT DRAWINGS OR DOCUMENTS. CONTRACTOR IS NOT TO ORDER MATERIAL OR CONSTRUCT ANY PORTION OF STRUCTURES THAT IS IN CONFLICT UNTIL CONFLICT IS RESOLVED WITH THE AFFECTED PARTIES.
- 8. MECHANICAL AND ELECTRICAL EQUIPMENT SUPPORTS, ANCHORAGES, OPENINGS, RECESSES AND REVEALS NOT SHOWN ON THE STRUCTURAL DRAWINGS, BUT REQUIRED BY OTHER CONTRACT DRAWINGS SHALL BE PROVIDED. OPENINGS THROUGH NEW AND EXISTING WALLS AND SLABS FOR PIPES, DUCTS CONDUITS, ETC. ARE NOT ALL SHOWN ON THE STRUCTURAL DRAWINGS. CONTRACTOR SHALL PROVIDE THESE OPENINGS IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. REINFORCEMENT AROUND OPENINGS IN NEW WALLS AND SLABS SHALL BE AS SHOWN IN THE TYPICAL DETAILS UNLESS OTHERWISE SHOWN.
- 9. CONTRACTOR SHALL VERIFY MECHANICAL AND ELECTRICAL PLANS FOR THE LOCATION OF EQUIPMENT.

CONSTRUCTION LOADS:

STRUCTURES HAVE BEEN DESIGNED FOR OWNER'S OPERATIONAL LOADS ON THE FINISHED STRUCTURES. DURING CONSTRUCTION, THE CONTRACTOR IS RESPONSIBLE FOR PROTECTING AND BRACING THE STRUCTURES AND BALANCING WHEREVER EXCESSIVE CONSTRUCTION LOADS MAY OCCUR. BACKFILL SHALL BE PLACED AROUND STRUCTURES SYMMETRICALLY AND UNIFORMLY SO THAT LOADS AGAINST STRUCTURES ARE INTRODUCED IN BALANCE. LIQUID-CONTAINING STRUCTURES SHALL BE TESTED FOR WATER-TIGHTNESS BEFORE BACKFILLING - SEE SPECS.

CONCRETE AND REINFORCING STEEL:

- 1. CONCRETE CONSTRUCTION SHALL CONFORM TO ACI 318-14 AND ACI CODE OF STANDARD PRACTICE.
- 2. SEE SPECIFICATIONS FOR REQUIREMENTS.
- 3. CEMENT SHALL CONFORM TO ASTM C-150, TYPE II, MODIFIED/TYPE V.
- 4. CONCRETE AGGREGATES: NATURAL SAND AND ROCK AGGREGATES CONFORMING TO ASTM C-33.
- 5. REINFORCING SHALL CONFORM TO ASTM A706 GRADE 60 OR 70, EXCEPT #3 & #4 STIRRUPS AND TIES MAY BE GRADE40.
- 6. WELDING OF REINFORCING STEEL SHALL CONFORM TO AWS D1.4 USING PROPER LOW HYDROGEN ELECTRODES. TACK WELDING TO REBAR IS STRICTLY PROHIBITED. SEE "REBAR WELDING".
- 7. REINFORCING STEEL SHALL BE DETAILED, FABRICATED, AND INSTALLED ACCORDING TO "MANUAL OF STANDARD PRACTICE FOR REINFORCED CONCRETE CONSTRUCTION" BY CRSI.
- 8. WIRE FABRIC SHALL CONFORM TO ASTM A-185.
- 9. DIMENSIONS SHOWN FOR LOCATION OF REINFORCING ARE TO THE FACE OF MAIN BARS AND DENOTE CLEAR COVERAGE. UNLESS OTHERWISE NOTED, CLEAR COVERAGE SHALL BE AS FOLLOWS:
 - CONCRETE DEPOSITED DIRECTLY AGAINST GROUND (EXCEPT SLABS) 3"
 - FORMED CONCRETE EXPOSED TO WEATHER OR GROUND OR LIQUID2"
 - #6 AND LARGER2"
 - #5 AND SMALLER2"
 - BEAMS (TOP BARS)1 1/2"
 - BEAMS (ALL OTHER MAIN REINFORCING)2"
 - COLUMN MAIN REINFORCING2"
 - SLABS ON GROUND WITH ONE LAYER OF REINFORCEMENT POSITION IN CENTER OF SLAB
- 10. A) UNLESS OTHERWISE NOTED ALL BARS SHOWN WITH LAPS OR SPLICES SHALL HAVE CLASS 'B' LAP LENGTH. SEE TABLE BELOW .

CLASS 'B' LAP LENGTH		
BAR SIZE	OTHER	TOP *
#3	1'-7"	2'-0"
#4	2'-1"	2'-8"
#5	2'-7"	3'-4"
#6	3'-1"	4'-0"
#7	4'-6"	5'-11"
#8	5'-2"	6'-9"
#9	5'-10"	7'-7"
#10	6'-7"	8'-6"
#11	7'-3"	9'-6"

* TOP REINFORCING IS HORIZONTAL REINFORCEMENT THAT HAS MORE THAN 12" OF CONCRETE PLACED BELOW IT.

- B) DOWEL ALL VERTICAL REBARS IN WALLS AND COLUMNS FROM FOUNDATION WITH SAME SIZE AND SPACING AS WALL VERTICAL BAR U.N.O.
 - C) SPLICES IN ADJACENT HORIZ. BARS SHALL BE STAGGERED NOT LESS THAN 5'-0" APART.
 - D) SPLICE CONTINUOUS BARS IN SOIL-BEARING GRADE BEAMS AS FOLLOWS: BOTTOM BARS AT MID-SPAN, TOP BARS AT CENTERLINE OF SUPPORT, UNLESS NOTED OTHERWISE.
 - E) SPLICE CONTINUOUS BARS IN BEAMS, SPANDRELS, WALL BEAMS ETC. AS FOLLOWS: BOTTOM BARS AT CENTERLINE OF SUPPORT, TOP BARS AT MIDSPAN, UNLESS NOTED OTHERWISE.
 - F) REINFORCING BARS SHALL BE RUN IN A MANNER THAT FORMS A CONTINUOUS SYSTEM OF BARS TYING ALL PARTS OF THE STRUCTURE TOGETHER. EXTEND ALL REINFORCING BARS AS FAR AS POSSIBLE IN EACH CONCRETE MEMBER AND TERMINATE BAR W/ 90° STD. HOOK TO 2" OF CONCRETE COVER OVER END OF HOOK. FACE OR BEND.
 - G) BEAM STIRRUPS AND COLUMN TIES SHALL HOOK 135 DEGREES AROUND A CORNER BAR UNLESS NOTED OTHERWISE.
- 11. GENERAL:
 - A) NO PIPES OR DUCTS SHALL BE PLACED IN CONCRETE SLABS, BEAMS, WALLS OR GRADE BEAMS UNLESS SPECIFICALLY DETAILED.
 - B) REFER TO ARCHITECTURAL, STRUCTURAL, ELECTRICAL AND MECHANICAL DRAWINGS FOR ALL OPENINGS, FLANGES, MOULDS, GROOVES, CLIPS AND GROUNDS TO BE CAST IN CONCRETE.
 - 12. CONSTRUCTION JOINTS SHALL BE MADE ROUGH AND ALL LAITANCE REMOVED FROM THE SURFACE. CONCRETE MAY BE ROUGHENED BY CHIPPING THE ENTIRE SURFACE, SANDBLASTING, OR HOSING THE SURFACE 4 TO 6 HOURS AFTER THE POUR WITH A FINE SPRAY.
 - 13. REMOVE ALL DEBRIS FROM THE FORMS BEFORE PLACING ANY CONCRETE.
 - 14. REINFORCING, DOWELS, BOLTS, ANCHORS, SLEEVES, ETC. TO BE EMBEDDED IN CONCRETE SHALL BE SECURELY POSITIONED BEFORE PLACING CONCRETE. OBTAIN APPROVAL OF ALL AFFECTED TRADES PRIOR TO PLACING CONCRETE.
 - 15. MAXIMUM FREE FALL OF CONCRETE SHALL BE 4'-0".
 - 16. CONCRETE FOR WALLS SHALL BE PLACED SO THAT NO PART OF THE LIFT IS MORE THAN 2 FT. HIGHER THAN ANY OTHER PART.
 - 17. CONCRETE IN WALLS, PIERS, OR COLUMNS SHALL SET AT LEAST 2 HOURS BEFORE PLACING CONCRETE IN BEAMS, SPANDRELS, OR SLABS SUPPORTED THEREON.
 - 18. REINFORCE ALL SLABS ON GRADE AS SHOWN ON DRAWINGS.
 - 19. USE #2 SPREADERS APPROXIMATELY EVERY THIRD INTERSECTION EACH DIRECTION FOR ALL DOUBLE LAYER WALLS. PLACE SPREADERS IN VERTICAL LINES WITH FORM TIES.
 - 20. NO WOOD SPREADERS ARE ALLOWED. NO WOOD STAKES ARE ALLOWED IN AREAS TO BE CONCRETED.
 - 21. CONCRETE MIX DESIGN SHALL BE SUBMITTED FOR ENGINEER'S REVIEW PRIOR TO PLACING CONCRETE.
 - 22. NOTIFY THE ENGINEER 48 HOURS PRIOR TO PLACING CONCRETE.
 - 23. SPACING OF CONST. JOINTS IN WALLS AND SLABS IS 30 FT. MAXIMUM E.A. WAY; LENGTH OF WALL POUR FROM CORNER IS 20 FT. MAXIMUM; MAXIMUM AREA OF ONE POUR IS 900 SF. U.N.O. SUBMIT SHOP DRAWINGS FOR APPROVAL.
 - 24. EXCEPT AS OTHERWISE REQUIRED, EXPOSED CONCRETE CORNERS AND EDGES SHALL HAVE 3/4" CHAMFERS. RE ENTRANT CORNERS SHALL NOT HAVE FILLETS.
 - 25. POST INSTALLED ANCHORS AS APPROVED BY ICC-ES FOR THE USE IN CRACKED CONCRETE SHALL BE USED. THE DESIGN SHALL BE IN ACCORDANCE WITH CHAPTER-17 OF ACI 318-14. PROVIDE ICC-ES REPORT FOR ENGINEERS APPROVAL.
 - 26. IF EXPANSION JOINTS ARE GOING TO BE USED, THEY WILL BE SHOWN ON CONSTRUCTION DRAWINGS.

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Consultant

WARNING

IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE

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Client/Project

CITY OF NEWMAN

WWTRF MCPIKE 1
RECLAMATION IMPROVEMENTS

NEWMAN, CALIFORNIA

File Name: X05593-01-502

RG	KCC	2019.08.02
Dwn.	Dgnr.	Chkd.
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Title

TYPICAL STRUCTURAL NOTES 1

Project No. 2002005593

Scale

Revision Sheet Drawing No.

23 of 41

S01

WATER STOPS FOR CONCRETE CONSTRUCTION:

1. ALL WATER STOPS SHALL BE INSTALLED ACCORDING TO THE MANUFACTURER'S SPECIFICATIONS TO GIVE A WATERTIGHT JOINT.
2. WATER STOPS SHALL BE CAREFULLY POSITIONED IN PLACE AND SUPPORTED AS REQUIRED TO REMAIN IN PLACE DURING OPERATIONS.
3. WATERSTOPS MUST BE USED AT ALL CONSTRUCTION JOINTS IN LIQUID CONTAINING STRUCTURES.

REBAR WELDING:

ALL REBAR TO BE WELDED SHALL BE CONTINUOUSLY INSPECTED BY A QUALIFIED LABORATORY APPROVED BY THE BUILDING OFFICIAL OF LOCAL JURISDICTION. CONTRACTOR MUST FURNISH TO THE LABORATORY MILL CERTIFICATES SHOWING CHEMICAL ANALYSIS. ALL PREHEATING AND WELDING SHALL BE DONE IN ACCORDANCE WITH AWS D1.4 STANDARDS (LATEST EDITION).

FOUNDATIONS:

1. THE FOOTINGS SHALL BEAR ON FIRM, DRY NATIVE MATERIAL OR ENGINEERED FILL WITH A MINIMUM PENETRATION OF 12 INCHES.
2. EXCAVATIONS SHALL BE CLEANED OF ALL DEBRIS. STANDING WATER SHALL BE REMOVED.
3. ALL FOOTINGS SHALL BE FORMED. FOUNDATIONS MAY BE PLACED IN NEAT EXCAVATIONS PROVIDED WRITTEN PERMISSION IS OBTAINED FROM THE ENGINEER AND FOOTINGS ARE INCREASED 2" IN WIDTH. SEE TYPICAL DETAIL.
4. NOTIFY THE ENGINEER 48 HOURS BEFORE PLACING FOUNDATIONS.

EXPANSION ANCHOR AND ADHESIVE ANCHOR NOTES:

1. ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH THE RECOMMENDATIONS GIVEN IN THE ICC-ES REPORT.
2. SPECIAL INSPECTION IS REQUIRED FOR ICBO ALLOWABLE TENSION VALUES LISTED IN THE INSPECTION NOTES. UNLESS NOTED OTHERWISE ANCHORS HAVE BEEN DESIGNED FOR SPECIAL INSPECTION.
3. DESIGN LOADS ON ANCHORS ARE NOT TO EXCEED 80% OF THE TENSION AND SHEAR VALUES AS RECOMMENDED BY THE MANUFACTURER.
4. TENSION TEST LOAD VALUES ARE BASED ON 80% OF TWICE THE TENSION VALUES LISTED.
5. ALLOWABLE LOADS MAY NOT BE INCREASED FOR DURATION OF LOADS SUCH AS WIND OR SEISMIC FORCES.
6. WHEN INSTALLING DRILLED IN ANCHORS IN EXISTING CONCRETE OR MASONRY, USE CARE AND CAUTION TO AVOID CUTTING OR DAMAGING EXISTING REINFORCING BARS.
7. THE TESTING OF THE ANCHORS SHALL BE DONE BY THE TESTING LABORATORY AND A REPORT OF THE TEST RESULTS SHALL BE SUBMITTED TO THE GOVERNING AGENCY AND ARCHITECT/STRUCTURAL ENGINEER. TESTING SHALL OCCUR 24 HOURS MINIMUM AFTER THE INSTALLATION OF THE ANCHORS.
8. ANCHORS INSTALLED IN METAL DECK WITH CONCRETE SHALL BE INSTALLED IN THE CENTER OF THE LOW FLUTE OF THE DECKING. THE DECKING SHALL HAVE A MINIMUM THICKNESS OF 20 GAUGE. THE MINIMUM DEPTH OF EMBEDMENT ABOVE THE TOP OF THE DECK SHALL BE 1-1/2". THE EFFECTIVE DEPTH OF EMBEDMENT IS CONSIDERED TO BE 1/3 OF THE METAL DECK HEIGHT PLUS THE DEPTH OF EMBEDMENT ABOVE THE TOP OF THE DECK.
9. ANCHORS SHALL NOT BE INSTALLED IN CONCRETE LESS THAN 21 DAYS OLD.

CODE:

1. 2016 CALIFORNIA BUILDING CODE (CBC).
2. CODE REQUIREMENTS FOR ENVIRONMENTAL ENGINEERING CONCRETE STRUCTURES (ACI 350-06) AND COMMENTARY (ACI 350R-06).
3. BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE (ACI 318-14).
4. MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES (ASCE 7-10).

SEISMIC DESIGN REQUIREMENTS:

SINCE SOIL PARAMETERS ARE NOT KNOWN IN SUFFICIENT DETAIL TO DETERMINE THE SITE CLASS, THE SITE CLASS WAS ASSUMED TO BE "D" PER CODE RECOMMENDATIONS, AND THE FOLLOWING SEISMIC PARAMETERS WERE OBTAINED USING "SEAOCC WEB TOOL"

SEISMIC COEFFICIENTS	Ss = 1.329g	Sms = 1.329g
	S1 = 0.445g	Sm1 = 0.629g
	Fa = 1.0	SDS = 0.886g
	Fv = 1.555	SD1 = 0.462g
SITE CLASS	D	
RISK CATEGORY	III	
SEISMIC DESIGN CATEGORY	D	
IMPORTANCE FACTOR	I = 1.25	
NON-BUILDING STRUCTURE		
RESPONSE MODIFICATION FACTOR	R =] PER ASCE 7-10 CHAPTER 15 SECTION 15.4.1.1 & TABLES 15.4-1 & 15.4-2
IMPORTANCE FACTOR	I =	

SEE SPECIFICATION SECTION - 01610 FOR OTHER REQUIREMENTS.

WIND DESIGN REQUIREMENTS:

BASIC WIND SPEED, Vult	115 MPH
EXPOSURE CATEGORY	C
RISK CATEGORY	III

SEE SPECIFICATION SECTION - 01615 FOR OTHER REQUIREMENTS.

GEOTECHNICAL REPORT:





GEOTECHNICAL REPORT SPECIFIC TO THIS PROJECT WAS NOT MADE AVAILABLE AT THE TIME OF DESIGN STAGE. FOLLOWING SOIL PARAMETER IS USED ON PRESUMPTIVE BASIS.

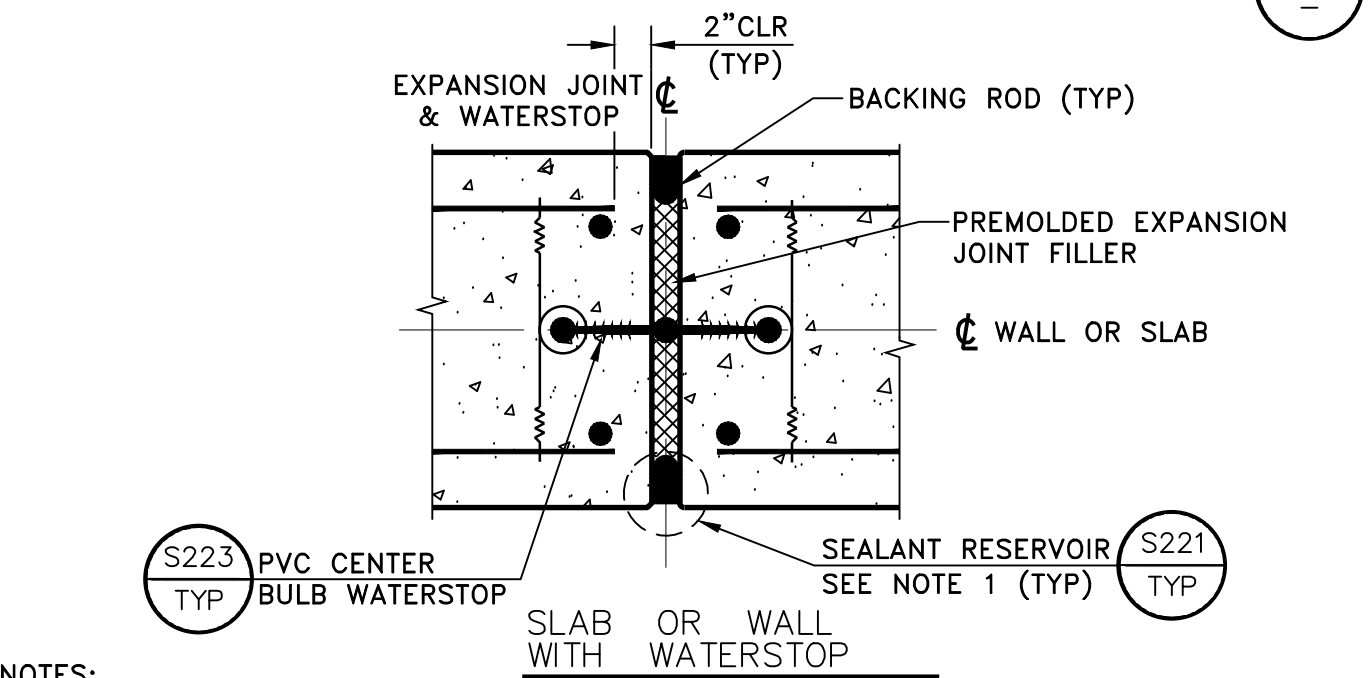
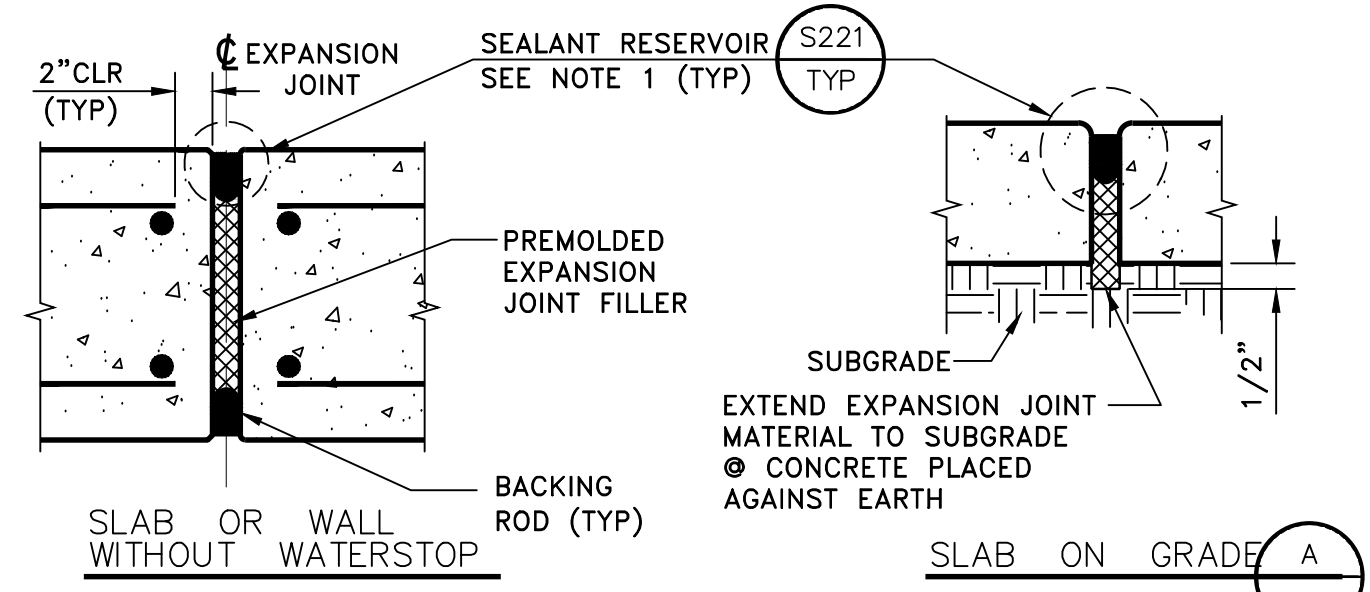
- ALLOWABLE SOIL BEARING CAPACITY 1,500 PSF.

FLOOR LIVE LOAD:

SLAB ON GRADE= 250 PSF

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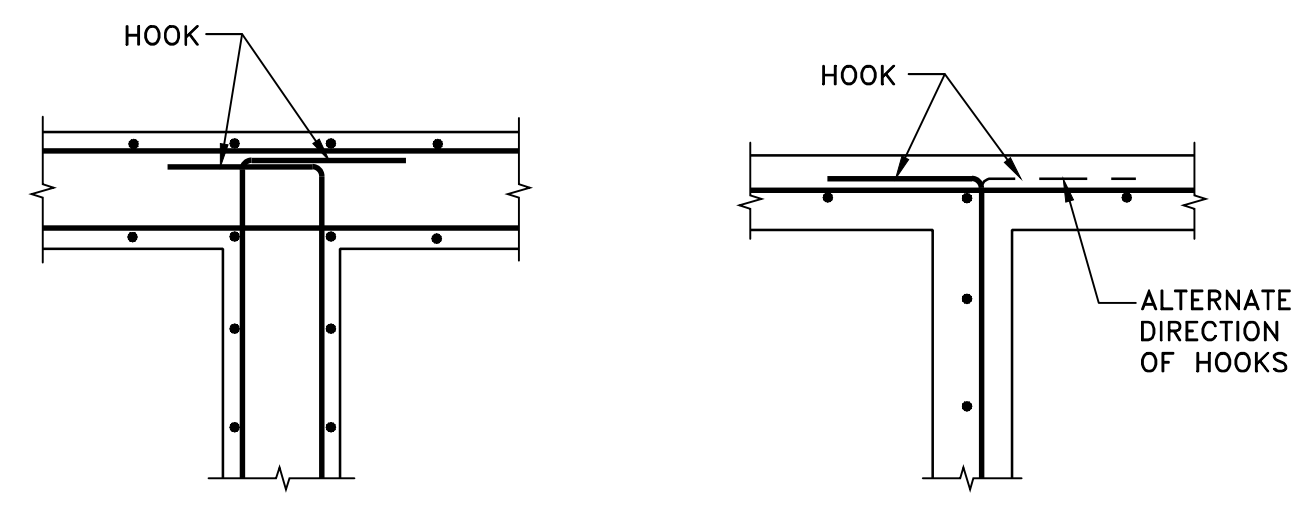
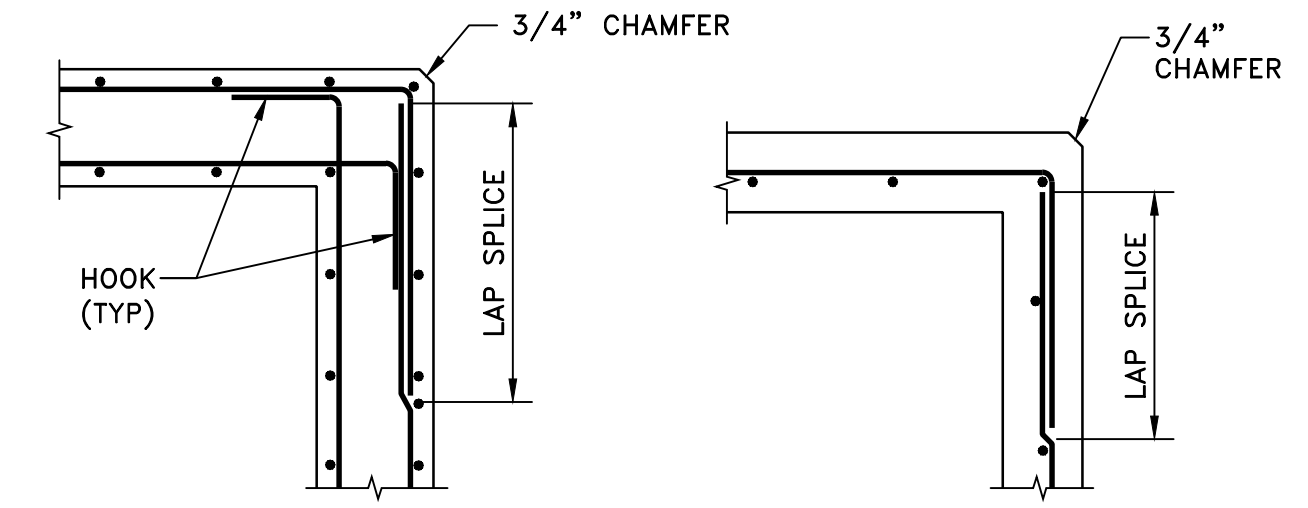


NOTES:

1. USE $\frac{A}{-}$ AT UNDERSIDE OF SLABS ON GRADE ONLY.
2. SEE DRAWINGS FOR LOCATION OF REINFORCEMENT.
3. WATERSTOP SHALL BE THOROUGHLY CLEANED PRIOR TO PLACING CONCRETE.
4. SINGLE LAYER REINFORCED SLABS OR WALLS SIMILAR.

EXPANSION JOINT

SCALE: NONE



NOTES:

1. ALL HOOKS SHALL BE ACI STD 90 DEGREE HOOKS WITH 12" MINIMUM RETURN.
2. FOR VERTICAL AND HORIZONTAL BARS SEE STRUCTURAL PLANS.

REINFORCEMENT AT CORNERS AND INTERSECTIONS

SCALE: NONE

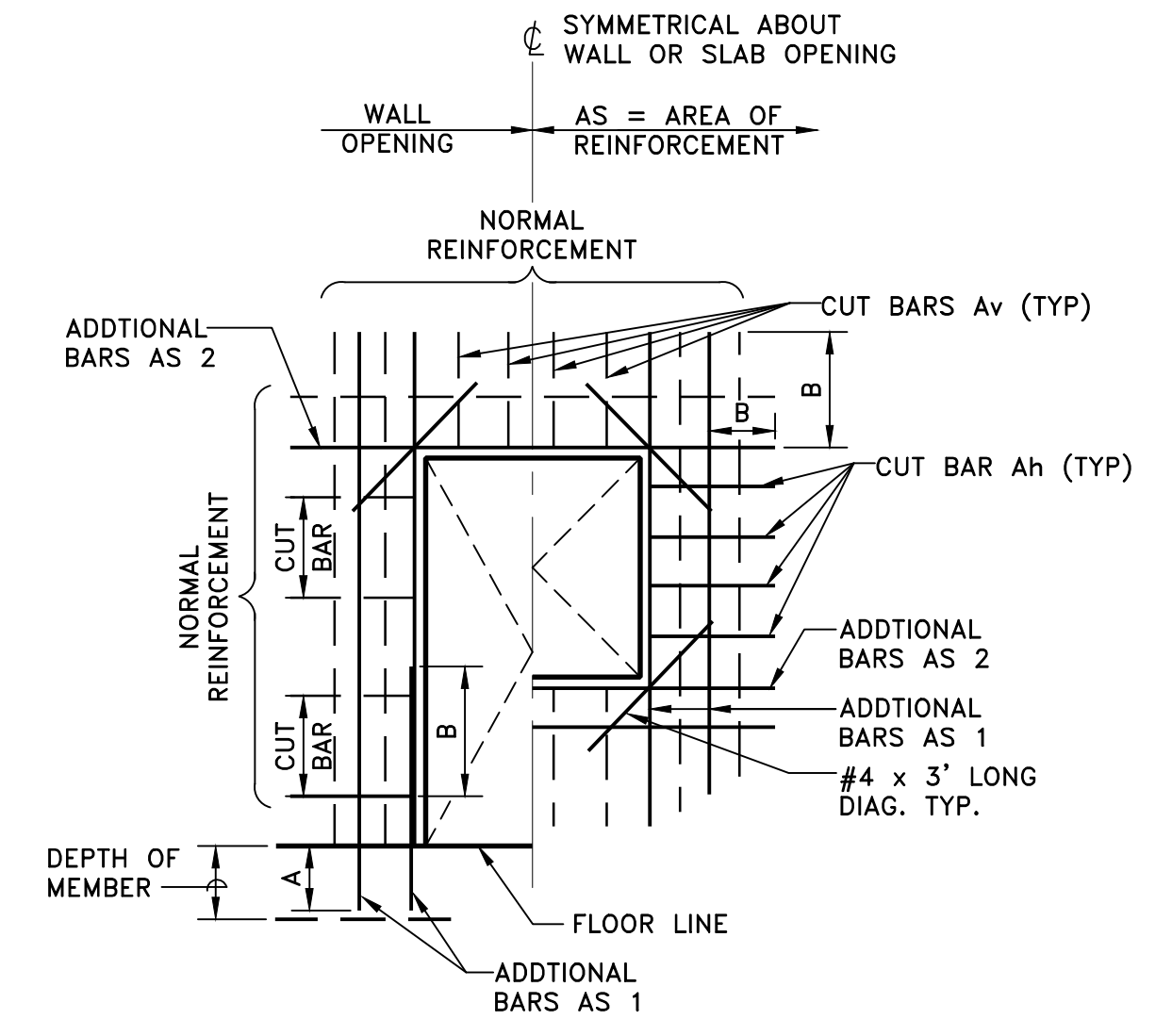
BAR SIZE	GRADE 60	
	A	B
#3	17"	22"
#4	22"	29"
#5	28"	36"
#6	33"	43"
#7	48"	63"
#8	55"	72"
#9	62"	81"
#10	70"	91"

NOTES FOR DETAILS: S216, S217

1. THIS DETAIL TO BE USED EXCEPT WHEN NOTED OTHERWISE ON STRUCTURAL DRAWINGS.
2. NORMAL REINFORCEMENT CUT AT OPENING:
 $AS_1 = 1/2$ TOTAL A_v CUT BARS
 $AS_2 = 1/2$ TOTAL A_h CUT BARS TO BE ADDED ON EACH SIDE OF OPENING.
3. DIAGONAL BARS TO BE PLACED:
 a) AT \bar{C} OF WALL OR SLAB WHERE ONE LAYER OF REINFORCEMENT IS PROVIDED.
 b) AT EACH FACE OF WALLS OR SLABS WHERE TWO LAYERS OF REINFORCEMENT ARE PROVIDED.
4. PROVIDE DIAGONAL DOWEL FOR EACH LAYER OF REINFORCEMENT (#4 x 3'-0") U.N.O.
5. LOCATE ADDITIONAL BARS AT MID SPACING BETWEEN CONTINUOUS BARS THAT ARE NOT CUT.

NOTES FOR ADDITIONAL REINFORCEMENT AT OPENINGS

SCALE: NONE

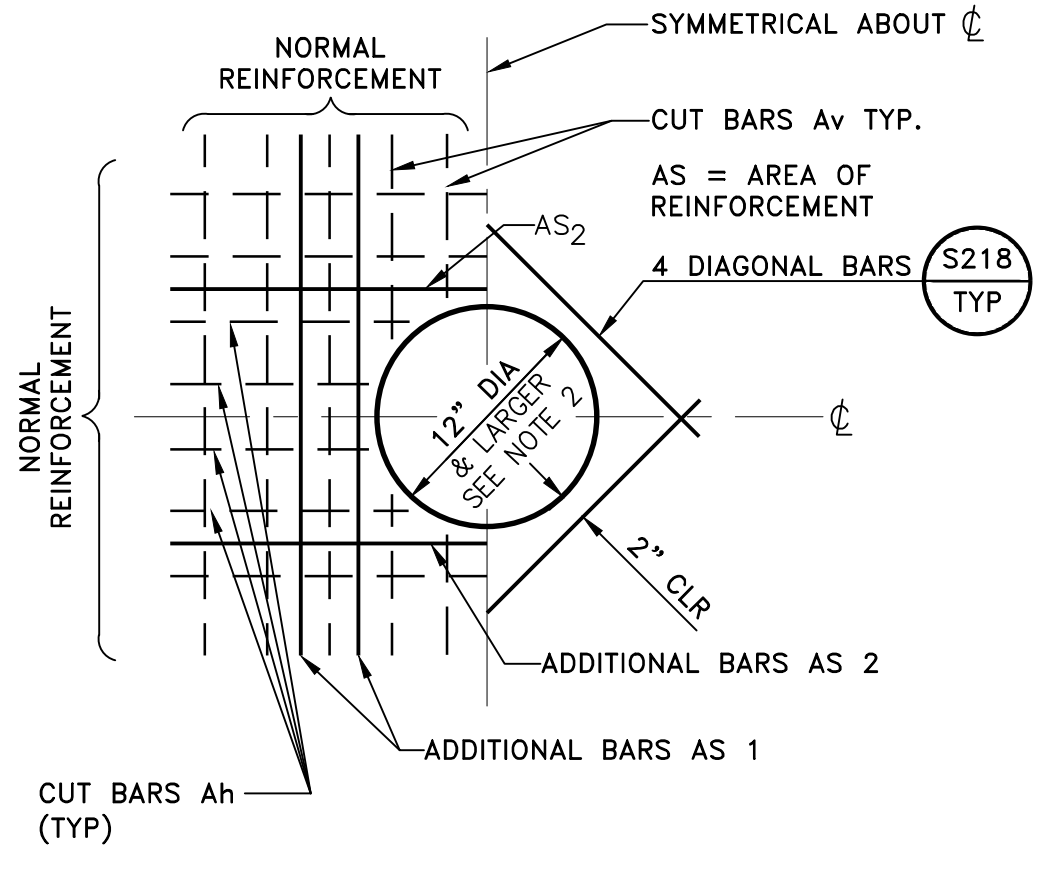


NOTES:

1. IF "A" IS GREATER THAN DEPTH OF MEMBER PROVIDE HOOKED BAR
2. FOR ADDITIONAL REINFORCEMENT SIZES & LENGTHS SEE $\frac{S215}{TYP}$

ADDITIONAL REINFORCEMENT AT RECTANGULAR OPENINGS

SCALE: NONE

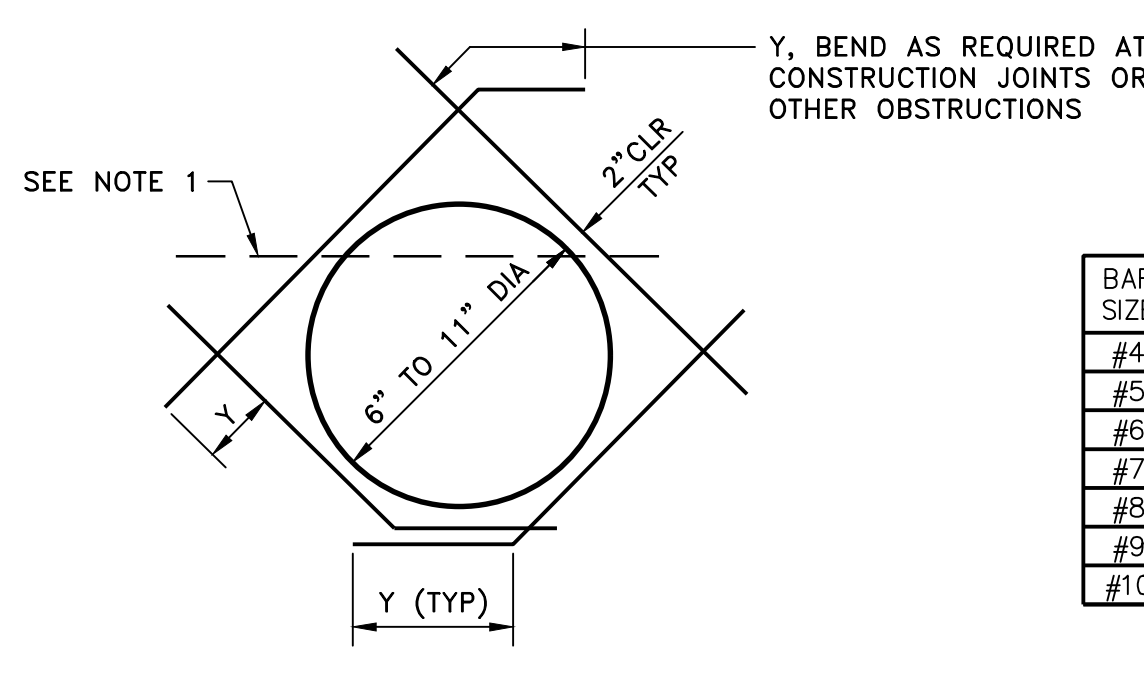


NOTES:

1. FOR ADDITIONAL REINFORCEMENT SIZES & LENGTHS SEE $\frac{S215}{TYP}$
2. FOR CIRCULAR OPENINGS LESS THAN 12" ϕ , SEE $\frac{S218}{TYP}$

ADDITIONAL REINFORCEMENT AT CIRCULAR OPENINGS

SCALE: NONE



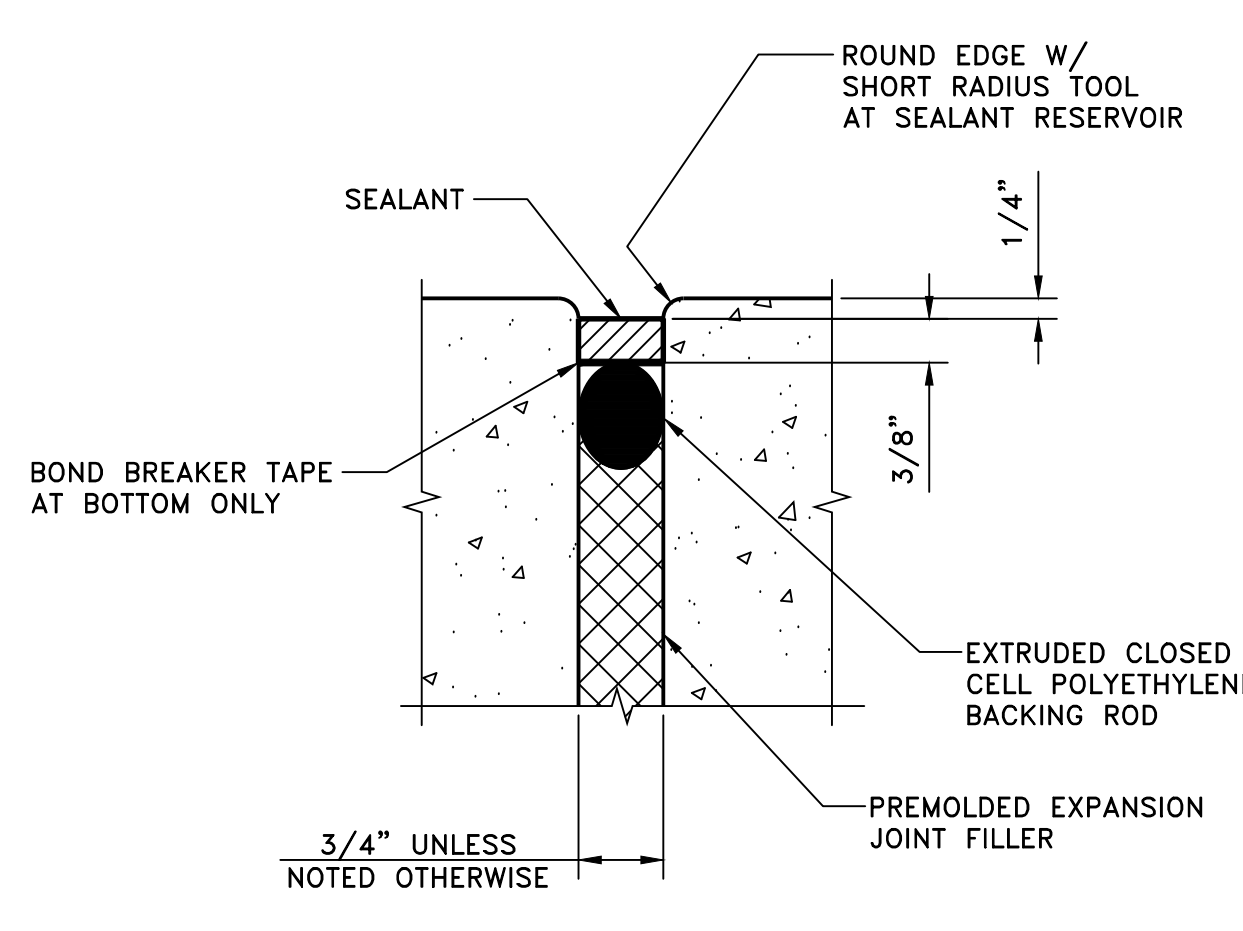
NOTES:

1. CUT TYPICAL REINFORCEMENT AT OPENING.
2. DIAGONAL BARS TO BE PLACED: a) AT CENTERLINE OF WALL OR SLAB WHERE ONE LAYER OF REINFORCEMENT IS PROVIDED. b) AT EACH FACE OF WALLS OR SLABS WHERE TWO LAYERS OF REINFORCEMENT ARE PROVIDED.
3. UNLESS OTHERWISE NOTED, SIZE OF DIAGONAL BARS SHALL BE THE SIZE OF THE LARGEST REINFORCEMENT CUT.
4. USE THIS DETAIL FOR ALL CIRCULAR OPENINGS 6" THROUGH 11" UNLESS OTHERWISE NOTED ON THE STRUCTURAL DRAWINGS.

DIAGONAL REINFORCEMENT AT CIRCULAR OPENINGS

SCALE: NONE

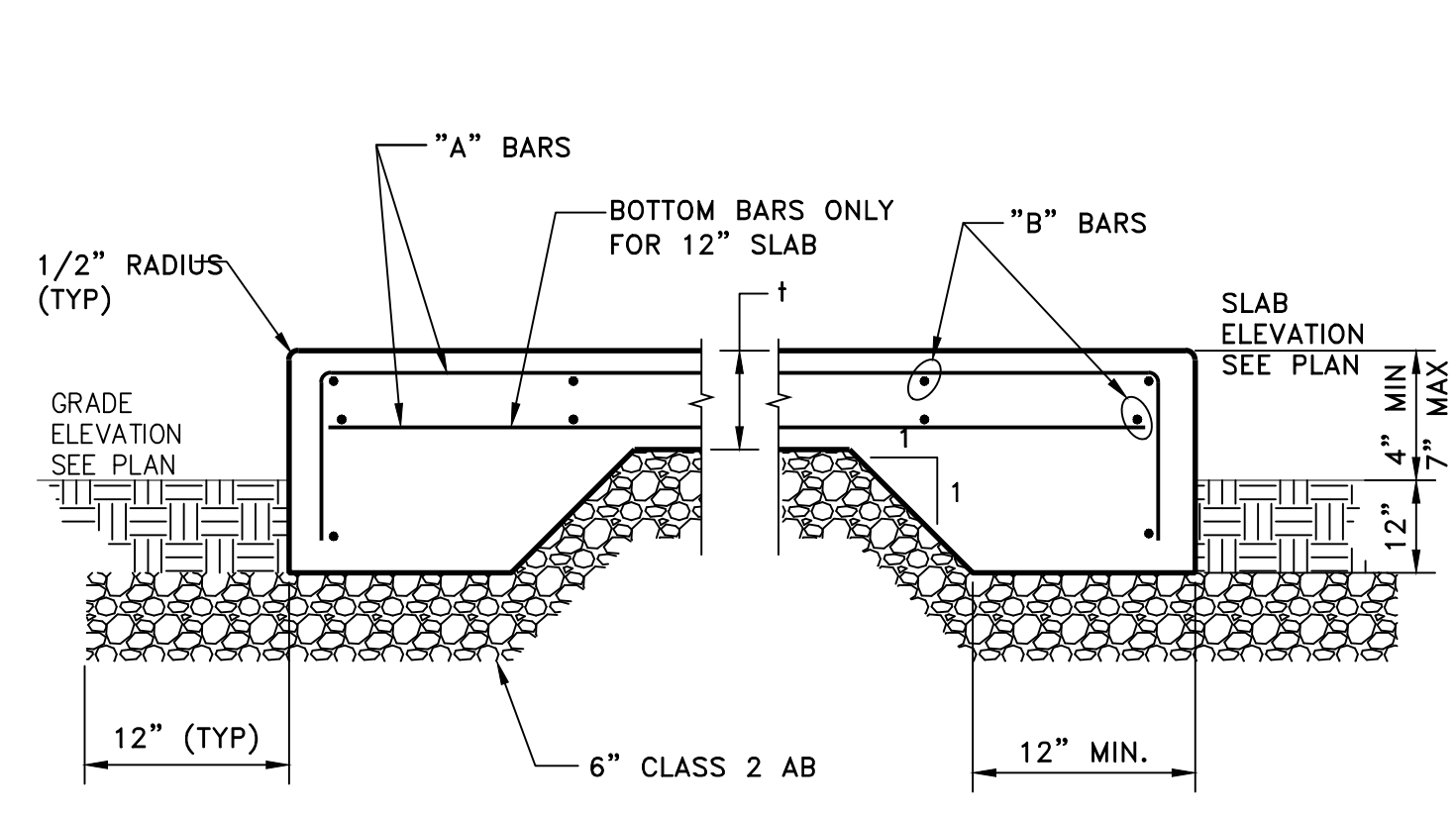
BAR SIZE	"Y"
#4	22"
#5	28"
#6	33"
#7	48"
#8	55"
#9	62"
#10	70"



SEALANT RESERVOIR AT EXPANSION JOINT

SCALE: NONE

THICKNESS t	BARS "A" SIZE/SPACING	BARS "B" SIZE/SPACING
4"	#4 @ 18" CC	#4 @ 18" CC
6"	#5 @ 18" CC	#5 @ 18" CC
8"	#5 @ 12" CC	#5 @ 12" CC
12"	#5 @ 12" CC T&B	#5 @ 12" CC T&B



NOTES:

1. FOR SLAB THICKNESS UP TO 8", REINFORCEMENT SHALL BE PLACED AT SLAB CENTER.

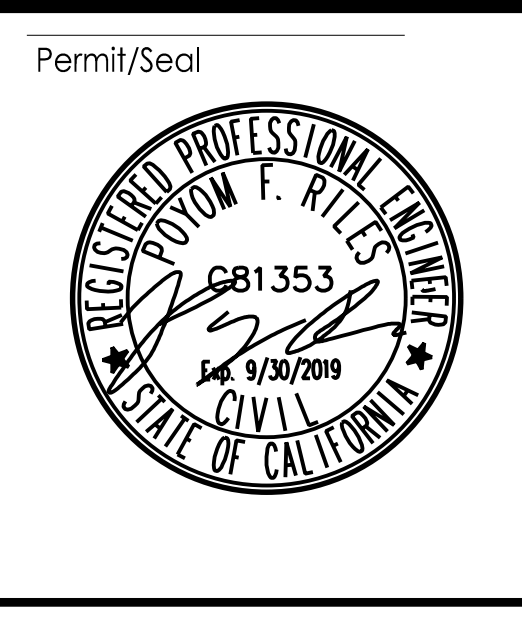
CONCRETE SLAB ON GRADE

SCALE: NONE

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Issued			YYYY.MM.DD

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WARNING

0 1/2" 1"

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RECLAMATION IMPROVEMENTS

NEWMAN, CALIFORNIA

File Name: X0599-501-502

RG	KCC	KCC	2019.08.02
Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

Title

TYPICAL STRUCTURAL DETAILS

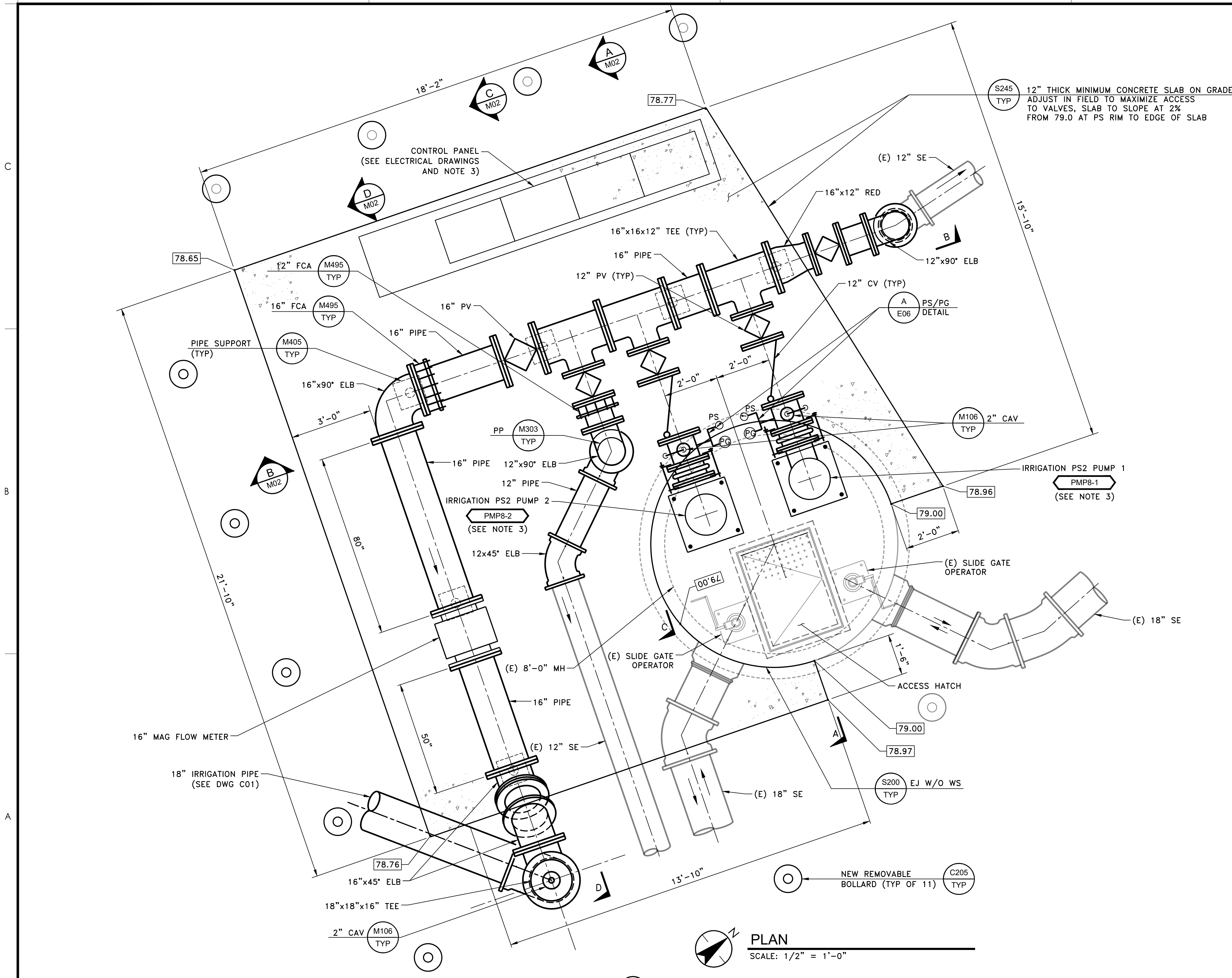
Project No. 2002005593

Scale

Revision Sheet 25 of 41

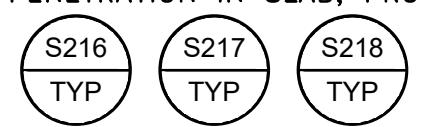
Drawing No. **S03**

V:\2002\2002005593\dwg\X0599-501-502.dwg 2023.03.21 10:59:48 AM ORIGINAL SHEET - ANSI D



NOTES:

- FOR ALL OPENING AND PIPE PENETRATION IN SLAB, PROVIDE ADDITIONAL REINFORCEMENT PER DDDETAILS
- SUPPORT SYSTEMS SHOWN ON DETAILS AND / OR DRAWINGS ARE MINIMUMS, AND FOR GENERAL GUIDANCE AND LAYOUT. CONTRACTOR TO COORDINATE WITH MANUFACTURER TO PROVIDE DETAILS AND CALCULATIONS, STAMPED BY A REGISTERED CALIFORNIA STRUCTURAL OR CIVIL ENGINEER FOR SUPPORT SYSTEMS INCLUDING ANCHORAGE. SEE SPECIFICATIONS SECTION 01610 AND 01615 FOR MORE INFORMATION.
- EQUIPMENT MANUFACTURER SHALL PROVIDE DRAWINGS AND CALCULATIONS FOR ANCHORAGE DESIGN, STAMPED AND SIGNED BY A CALIFORNIA REGISTERED CIVIL OR STRUCTURAL ENGINEER FOR REVIEW.



S245 TYP
12" THICK MINIMUM CONCRETE SLAB ON GRADE, ADJUST IN FIELD TO MAXIMIZE ACCESS TO VALVES, SLAB TO SLOPE AT 2% FROM 79.0 AT PS RIM TO EDGE OF SLAB

PLAN
SCALE: 1/2" = 1'-0"

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Revision	By	Appd	YYYY.MM.DD

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NEWMAN, CALIFORNIA

File Name: X05593-M01

RG	PR	CA	2019.08.02
Dwn.	Dgnr.	Chkd.	YYYY.MM.DD

Title

**IRRIGATION PUMP STATION 2
TOP PLAN**

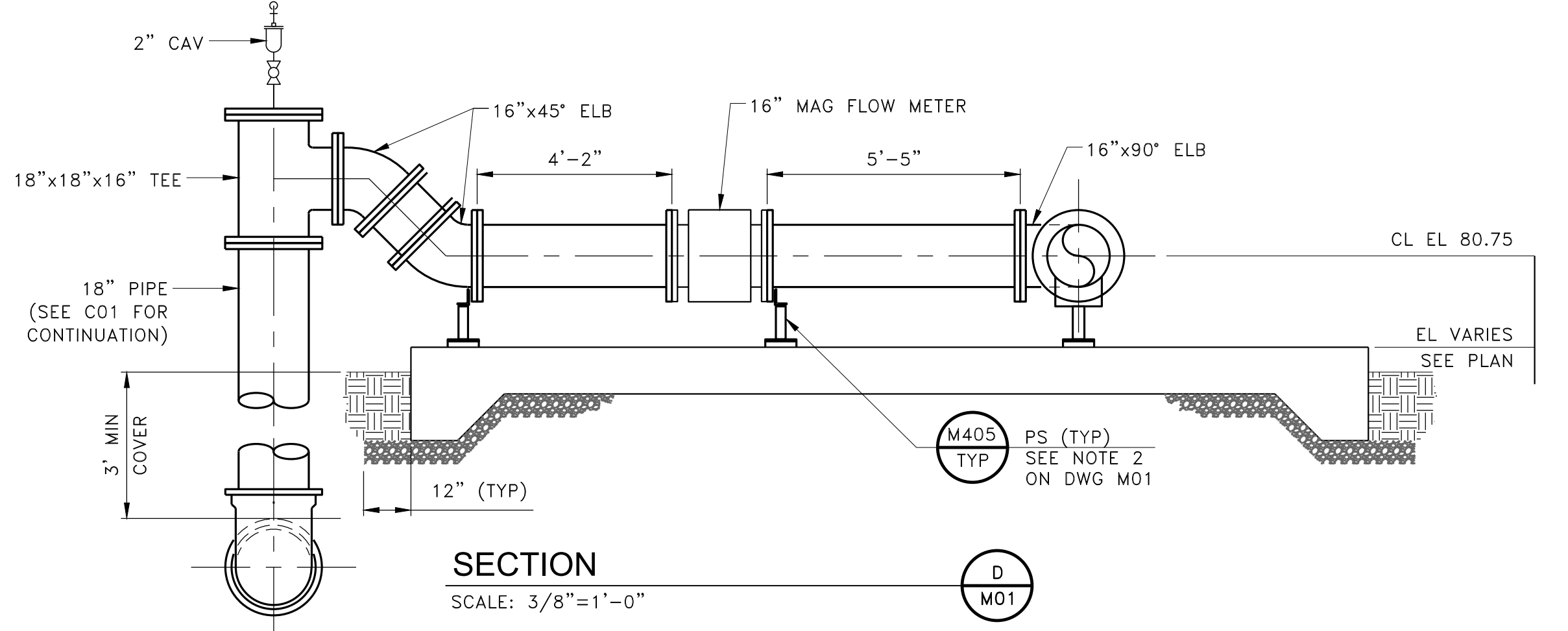
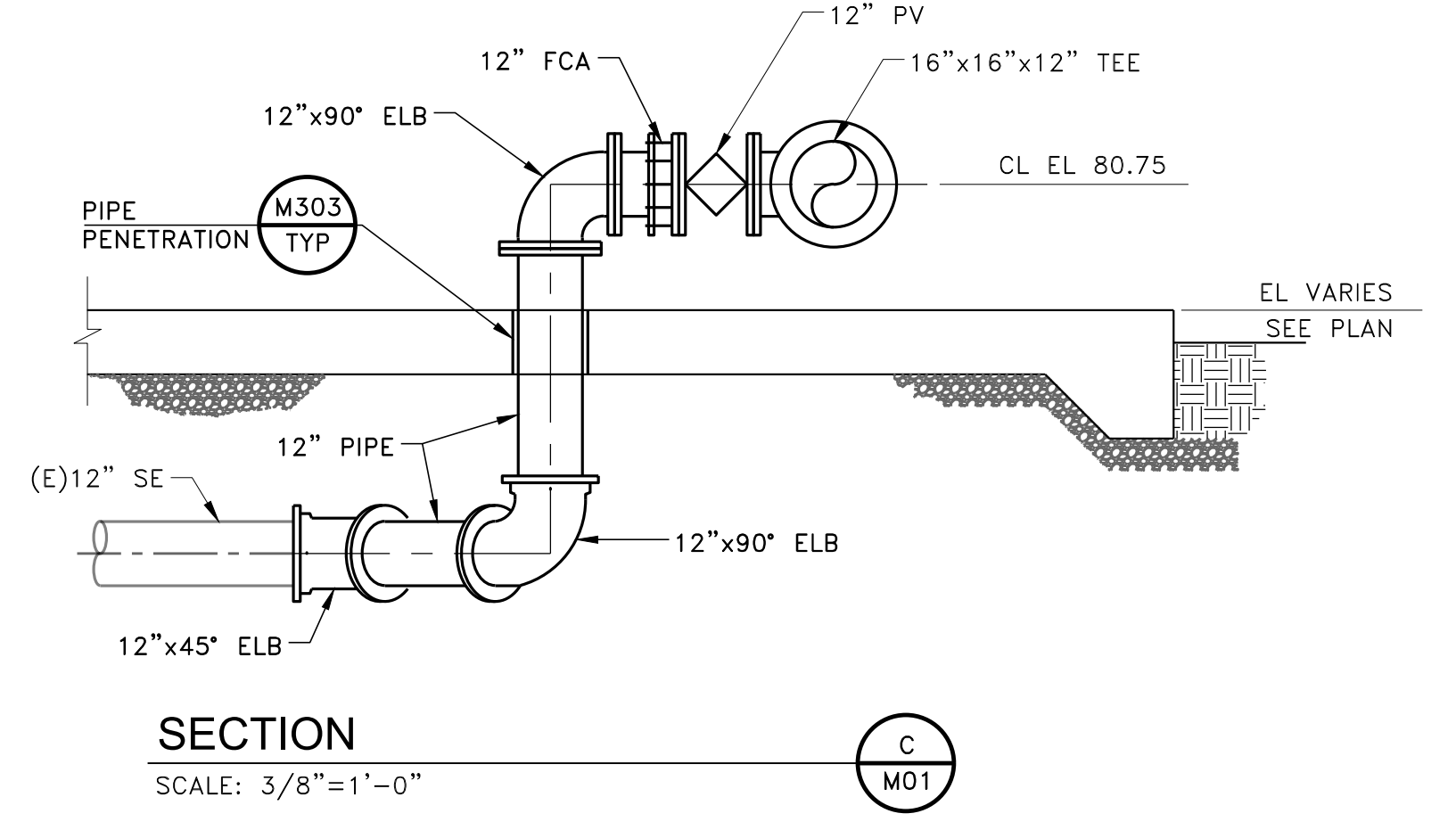
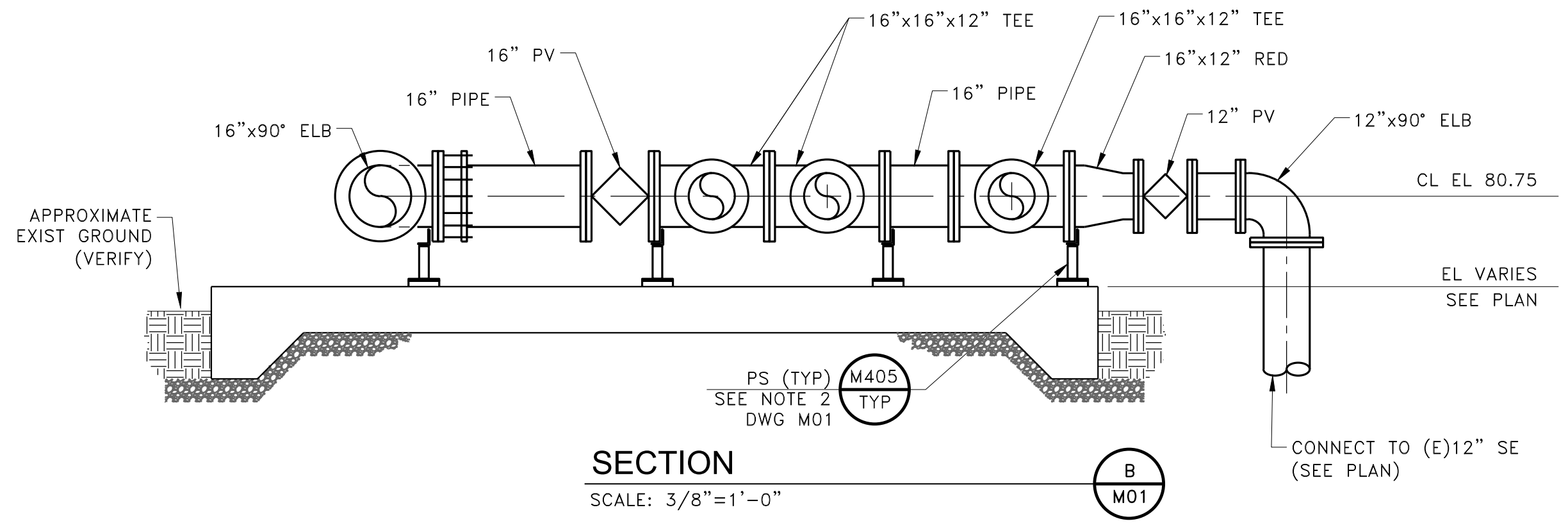
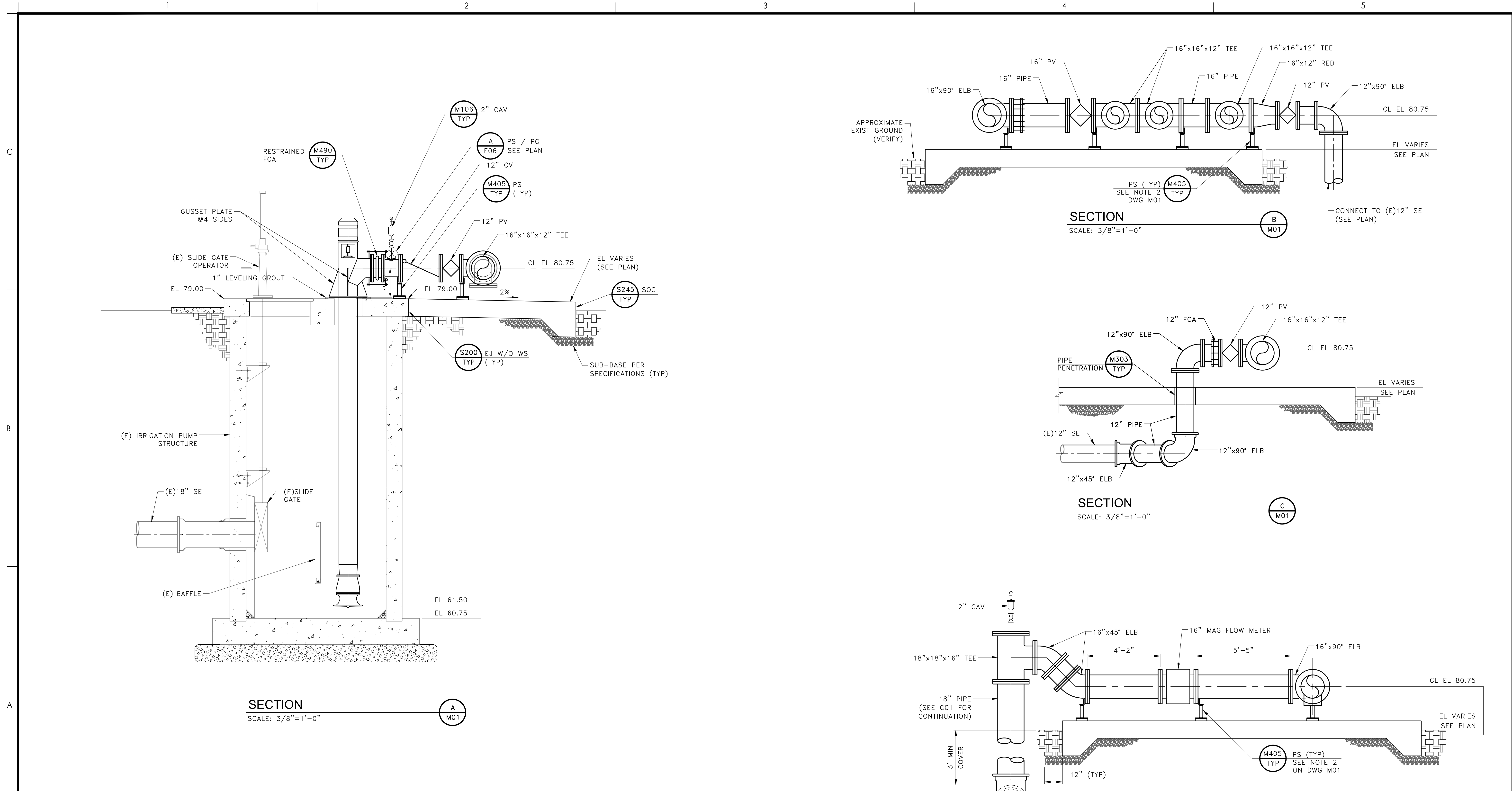
Project No. 2002005593

Scale

Revision Sheet Drawing No.

26 of 41 **M01**

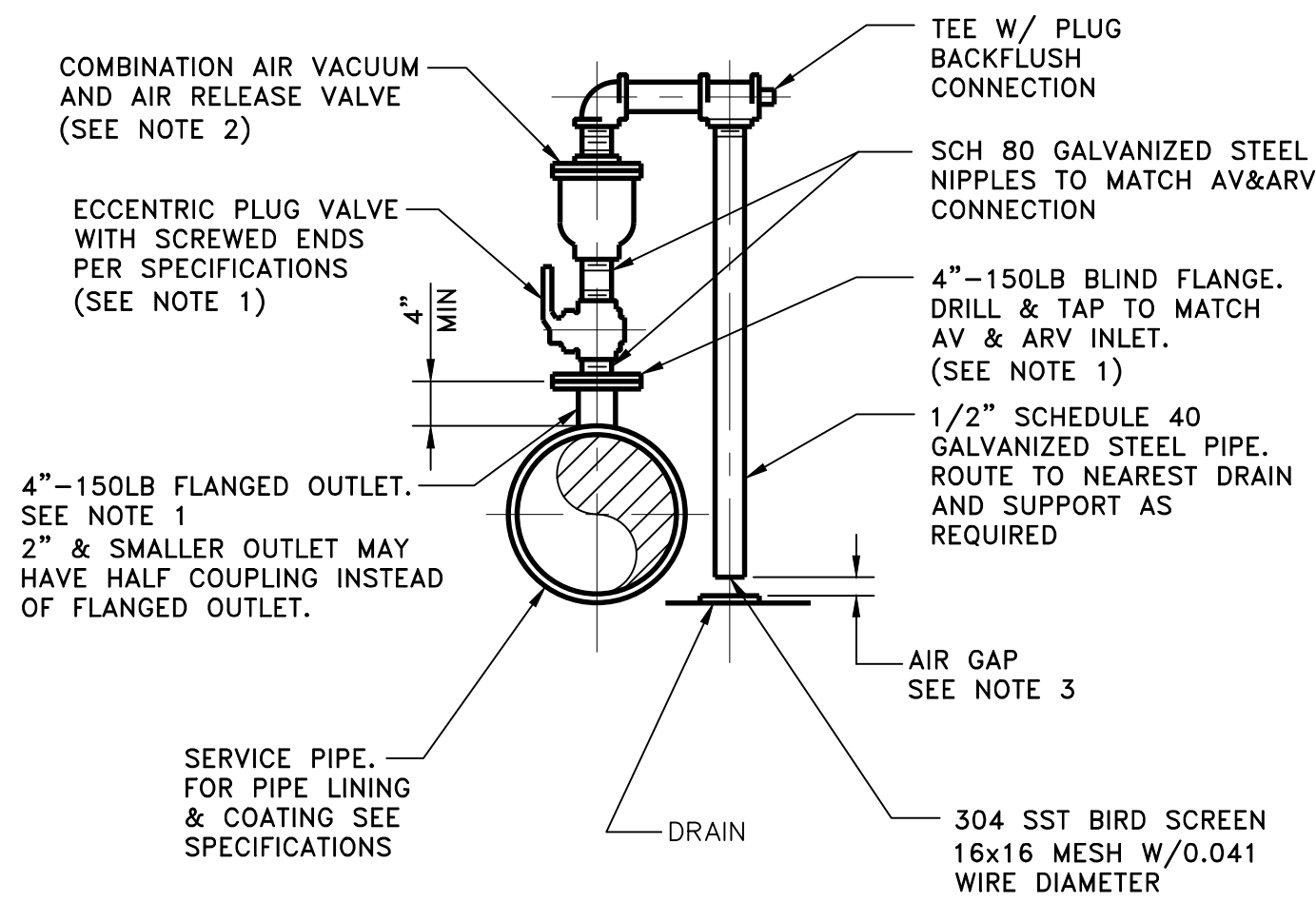
v:\2002\2002005593\dwg\X05593-m01.dwg 2023.03.21 9:44:50 AM ORIGINAL SHEET - ANSI D



NOTE:
ELECTRICAL CONTROL PANEL NOT SHOWN (SEE ELECTRICAL DRAWINGS).

Issued _____ By _____ Appd _____ YYYY.MM.DD Revision _____ By _____ Appd _____ YYYY.MM.DD	<p style="text-align: center;">CONFORMED</p> <p>The Contractor shall verify and be responsible for all dimensions. DO NOT scale the drawing - any errors or omissions shall be reported to Stantec without delay. The Copyrights to all designs and drawings are the property of Stantec. Reproduction or use for any purpose other than that authorized by Stantec is forbidden.</p>	Permit/Seal 	Consultant 	Client/Project Logo 	Client/Project CITY OF NEWMAN WWTRF MCPIKE 1 RECLAMATION IMPROVEMENTS NEWMAN, CALIFORNIA	Title IRRIGATION PUMP STATION 2 SECTION AND DETAILS
		WARNING IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE	3875 Atherton Rd Rocklin CA 95765 Tel. 916.773.8100 Fax. 916.773.8448 www.stantec.com Copyright Reserved <small>The Contractor shall verify and be responsible for all dimensions. DO NOT scale the drawing - any errors or omissions shall be reported to Stantec without delay. The Copyrights to all designs and drawings are the property of Stantec. Reproduction or use for any purpose other than that authorized by Stantec is forbidden.</small>	Title IRRIGATION PUMP STATION 2 SECTION AND DETAILS		
Project No. 2002005593 Revision Sheet 27 of 41		Scale Drawing No. M02		File Name: X05593-M01 RG PR CA 2019.08.02 Dwn. Dsgn. Chkd. YYYY.MM.DD		

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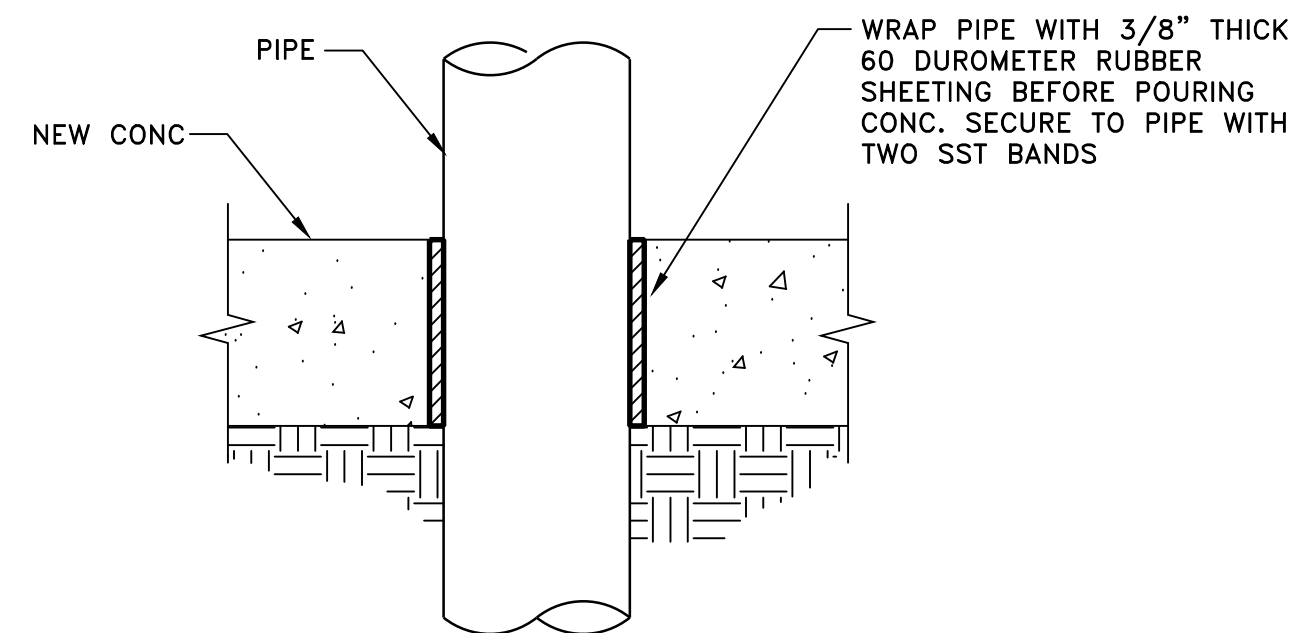
NOTES:

1. FLANGED OUTLET AND ECCENTRIC PLUG VALVE SHOULD BE SUITABLE FOR 150 PSI PRESSURE MINIMUM. INCREASE PRESSURE RATING AS REQUIRED TO MATCH PIPING SYSTEM TEST PRESSURE.
2. VALVE SIZE PER SPECIFICATIONS OR AS INDICATED ON DRAWINGS.
3. WASTEWATER SERVICE REQUIRES AN AIR GAP OF (2) PIPE DIAMETER OR 2 INCHES, WHICHEVER IS LARGER. POTABLE WATER SERVICE REQUIRES 36 INCHES OR PER LOCAL HEALTH DEPARTMENT CODES, WHICHEVER IS LARGER.

AIR-VACUUM AND AIR-RELEASE VALVE ASSEMBLY 3" AND SMALLER

SCALE: NONE

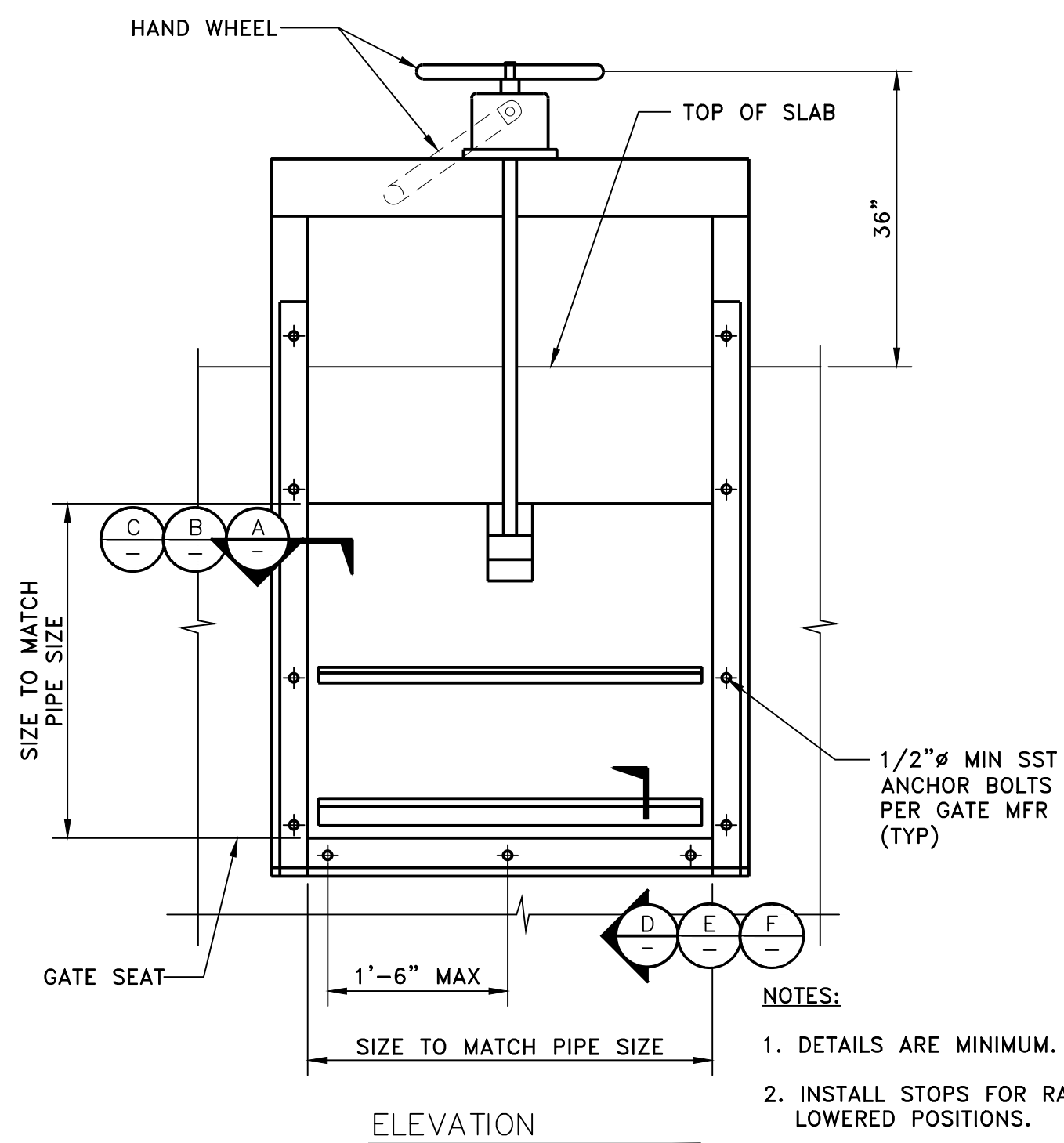
M106
TYP



SLAB ON GRADE PIPE PENETRATION

SCALE: NONE

M303
TYP



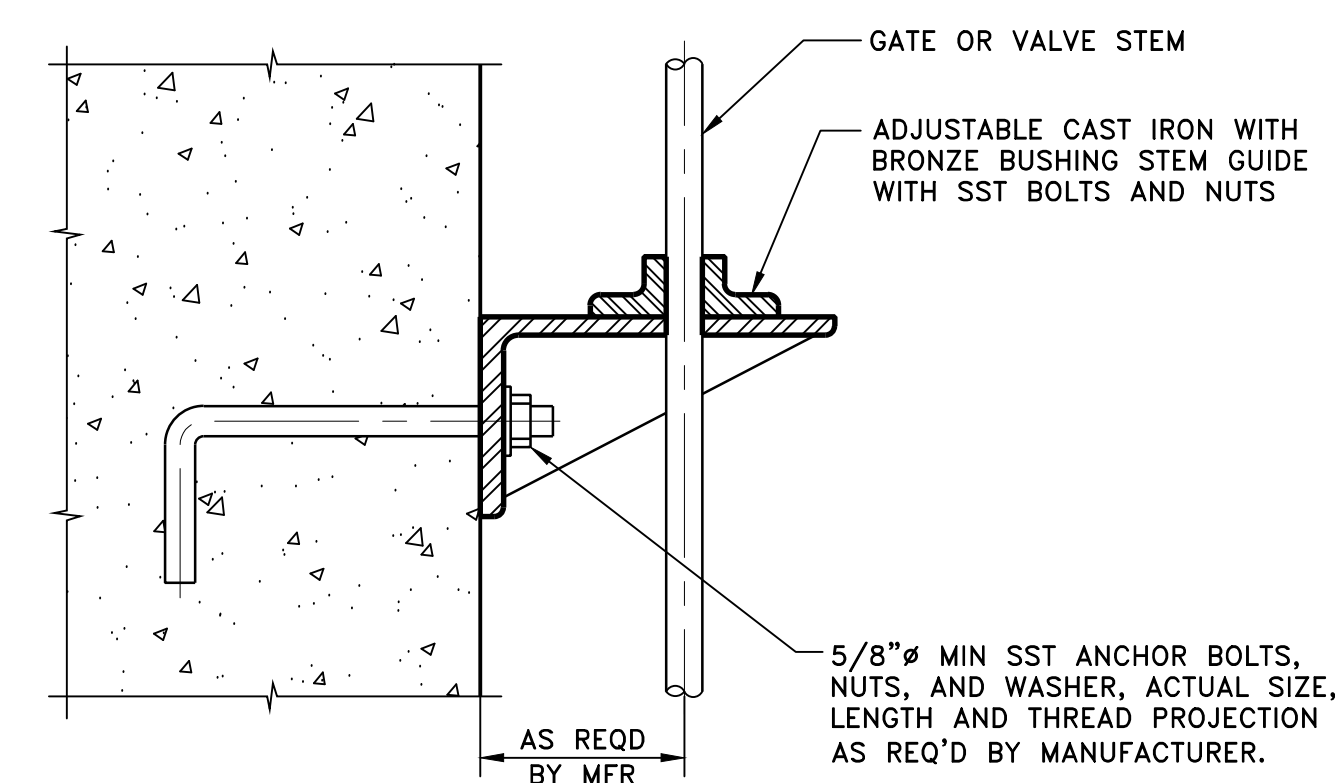
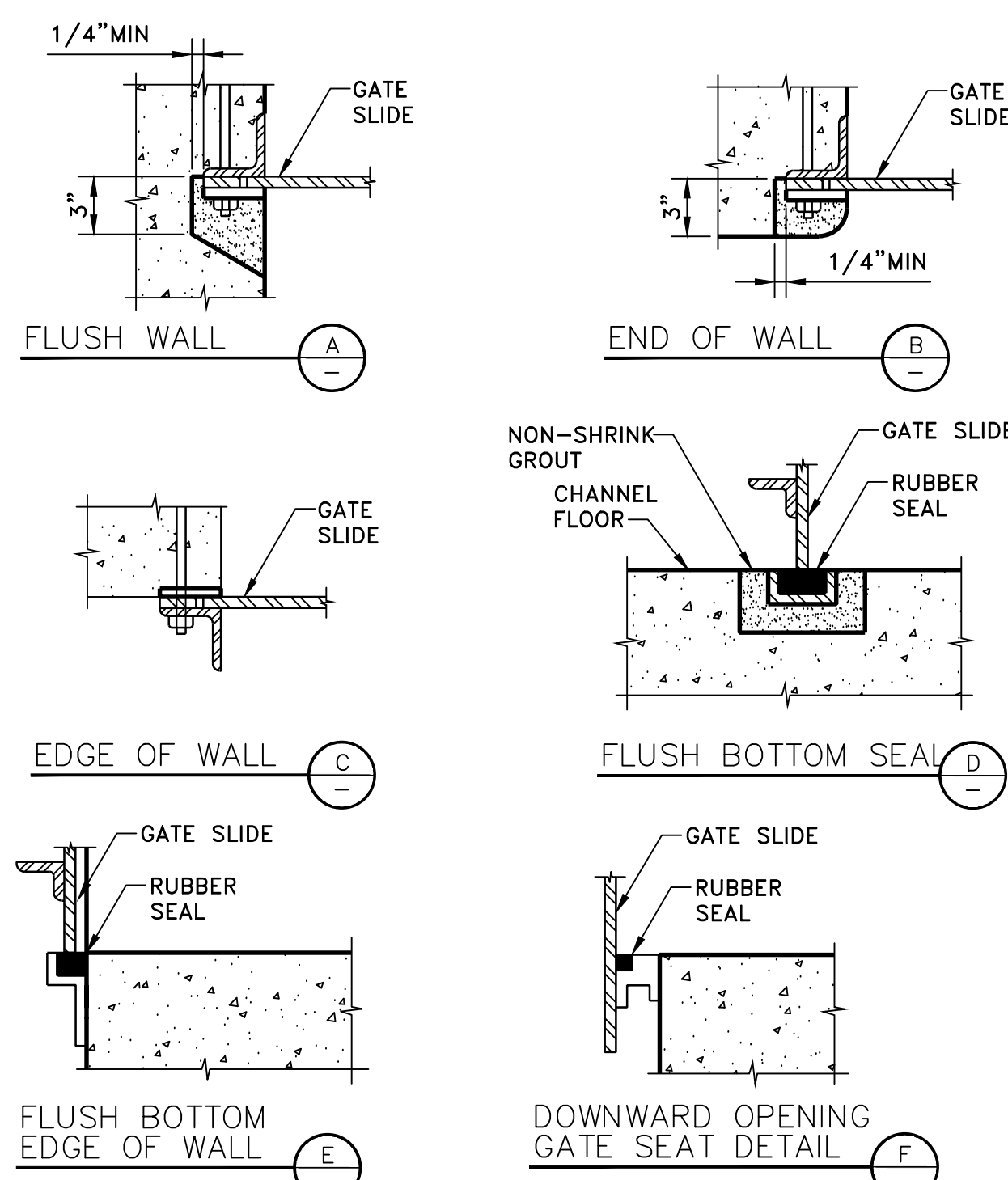
NOTES:

1. DETAILS ARE MINIMUM.
2. INSTALL STOPS FOR RAISED AND LOWERED POSITIONS.

SLIDE GATE / CANAL GATE

SCALE: NONE

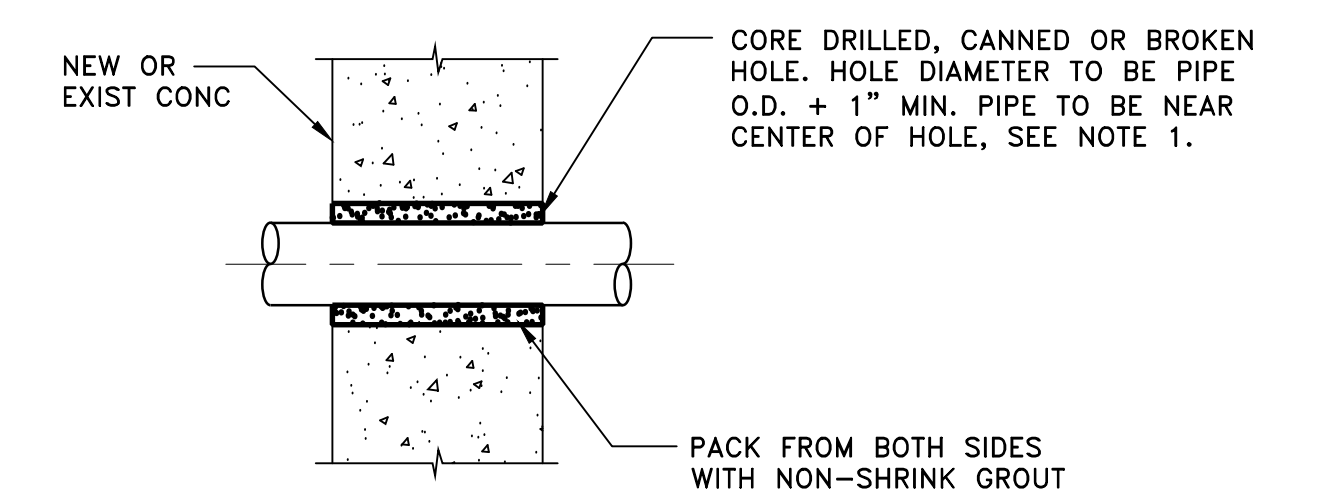
M290
TYP



STEM GUIDE

SCALE: NONE

M291
TYP



GROUTED PIPE PENETRATION

SCALE: NONE

M301
TYP

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RECLAMATION IMPROVEMENTS

NEWMAN, CALIFORNIA

File Name: X05593-M03-M05

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Dwn.	Dgn.	Chkd.	YYYY.MM.DD

Client/Project

TYPICAL MECHANICAL DETAILS 1

Project No. 2002005593

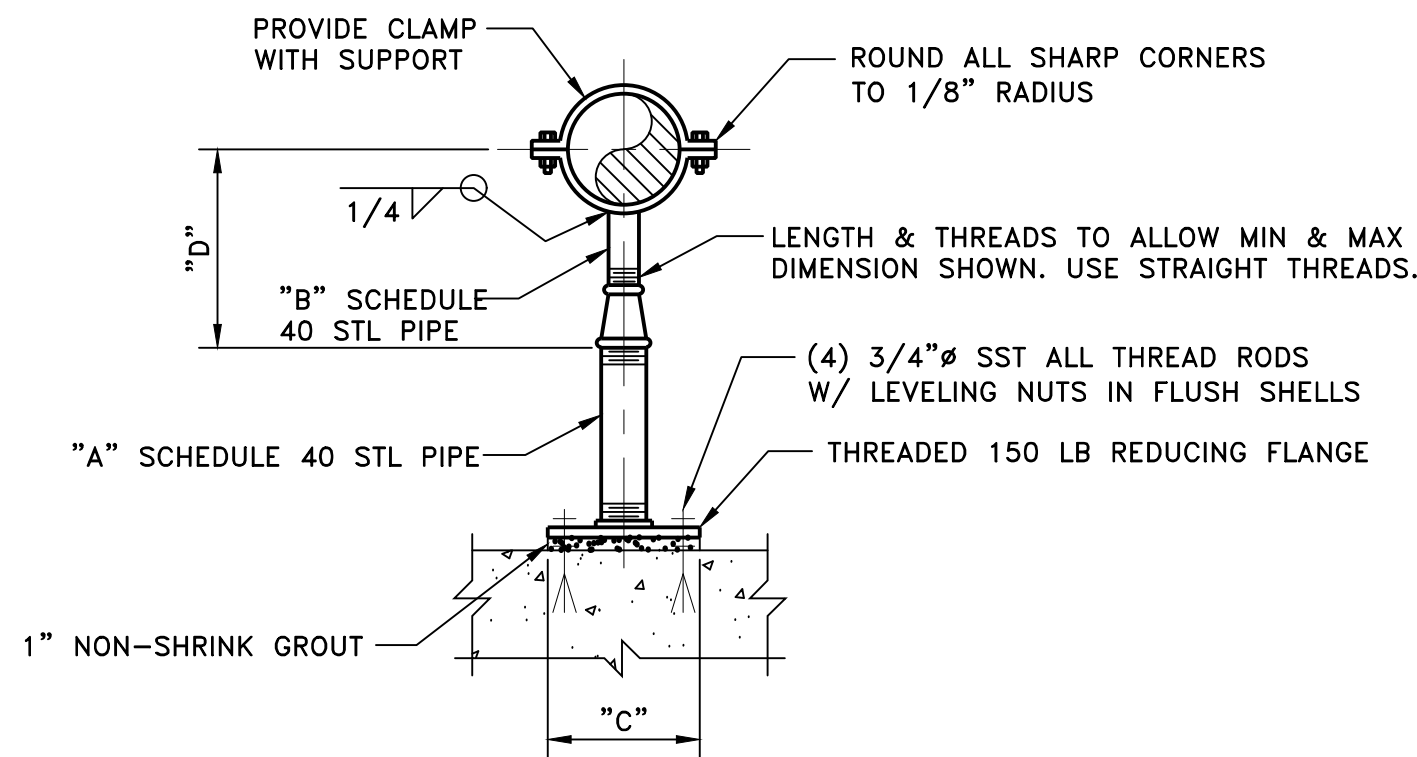
Scale

Revision Sheet Drawing No.

28 of 41

M03

ADJUSTABLE PIPE SADDLE SUPPORT SCHEDULE					
DIMENSIONS IN INCHES					
SIZE OF SUPPORTED PIPE	PIPE SIZE "A"	PIPE SIZE "B"	PIPE SIZE "C"	PIPE SIZE "D"	
				MINIMUM	MAXIMUM
8	3	2 1/2	9	11 1/2	16 1/2
10	3	2 1/2	9	13 1/2	18 1/2
12	3	2 1/2	9	15	19 1/2
14	4	3	11	16 1/2	20 1/2
16	4	3	11	17 1/2	22 1/2
18	4	3 1/2	13 1/2	19 1/2	24
20	4	3 1/2	13 1/2	21	25 1/2
24	6	4	13 1/2	23 1/2	28 1/2
30	6	4	13 1/2	27	31 1/2
32	6	4	13 1/2	28 1/2	32 1/2
36	6	4	13 1/2	30 1/2	34 1/2



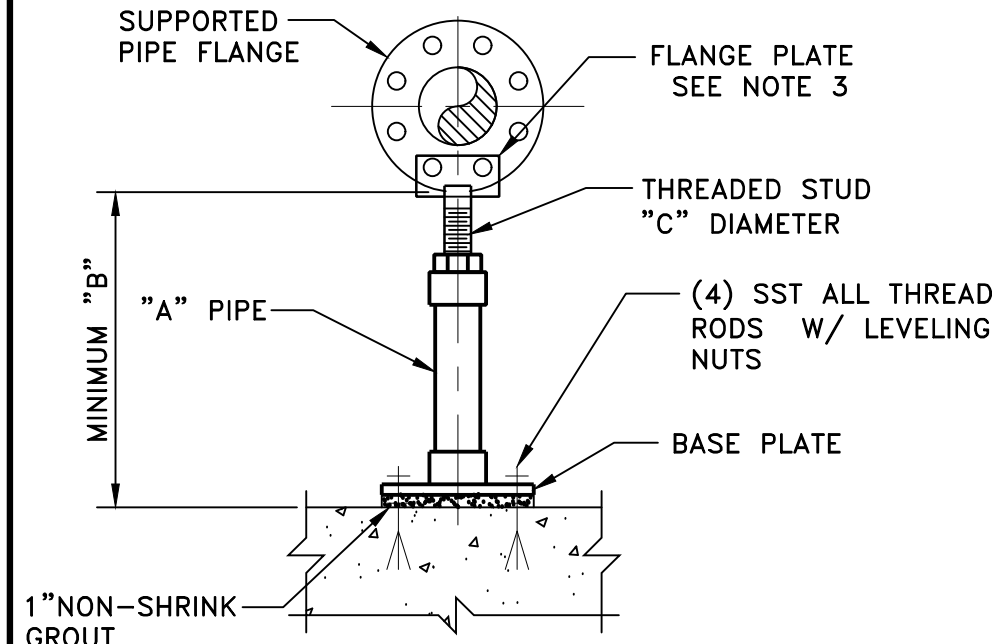
- NOTES:
- HOT-DIP GALVANIZE AFTER FABRICATION.

ADJUSTABLE PIPE SUPPORT (>6")

SCALE: NONE

M402 TYP

ADJUSTABLE PIPE SUPPORT SCHEDULE				
SIZE OF SUPPORTED PIPE	EXTENSION PIPE SIZE "A" SCH 40	BASE PLATE SIZE	MINIMUM DIST. FROM FLANGE TO FLOOR "B"	THREADED STUD "C" DIAMETER
2	2"	4" x 6" x 1/4"	7"	1"
2 1/2	2"	4" x 6" x 1/4"	7"	1"
3	2"	4" x 6" x 1/4"	7"	1"
4	2"	4" x 6" x 1/4"	7"	1"
6	2"	4" x 6" x 1/4"	7"	1"
8	2"	4" x 6" x 1/4"	7"	1"
10	2"	4" x 6" x 1/4"	7"	1"
12	2"	4" x 6" x 1/4"	7"	1"
14	3"	8" x 8" x 1/2"	9 1/2"	1 1/2"
16	3"	8" x 8" x 1/2"	9 1/2"	1 1/2"
18	4"	8" x 8" x 1/2"	10"	2"
20	4"	8" x 8" x 1/2"	10"	2"
24	4"	8" x 8" x 1/2"	10"	2"
30	6"	13 1/2" x 13 1/2" x 1/2"	12"	2"
36	6"	13 1/2" x 13 1/2" x 1/2"	16"	2 1/2"
42	8"	16" x 16" x 1/2"	18"	2 1/2"
48	8"	16" x 16" x 1/2"	18"	2 1/2"



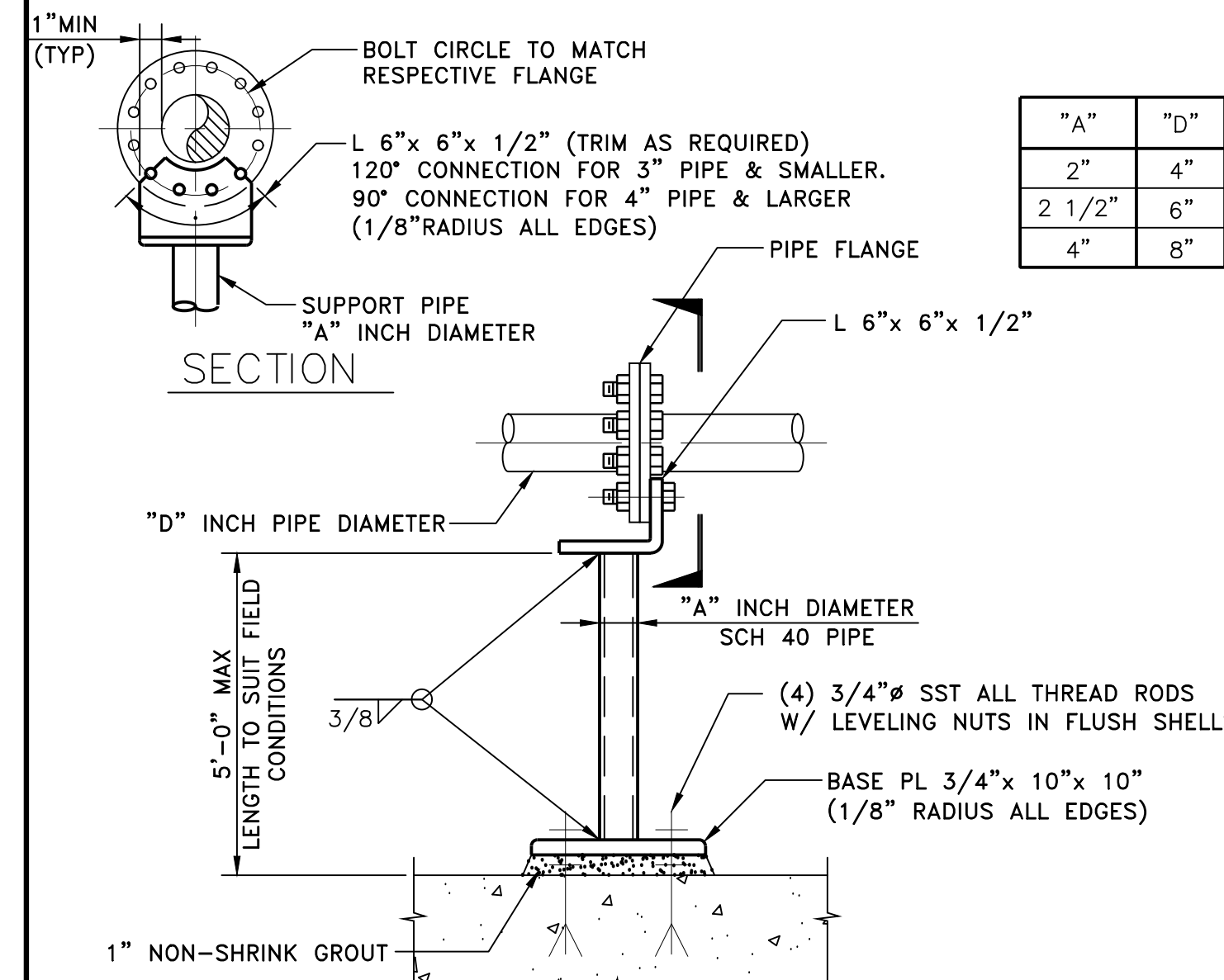
NOTES:

- MATERIAL OF FABRICATION ASTM A35 & A53 STEEL WITH ELECTRO-GALVANIZED FINISH OR AS SPECIFIED ON THE DRAWING.
- STANDON MODEL S89 FLANGE SUPPORT OR EQUAL. SUPPORT DOES NOT SERVE AS SEISMIC OR THRUST SUPPORT.
- TWO BOLTS UP TO 10". 45" THEREAFTER

ADJUSTABLE PIPE SUPPORT AT FLANGE (2" TO 48")

SCALE: NONE

M404 TYP



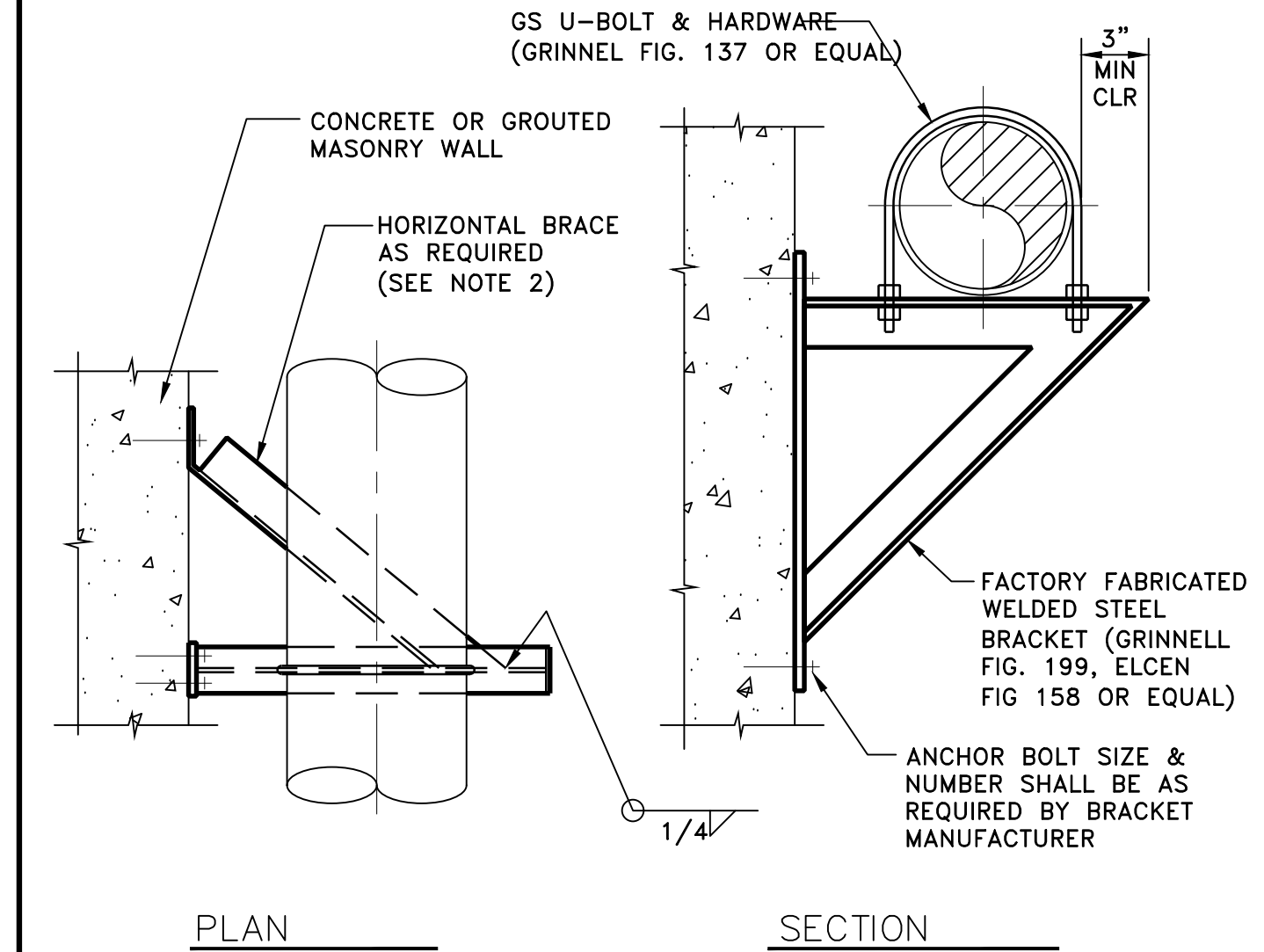
NOTES:

- MAXIMUM VERTICAL LOAD = 1000 POUNDS.
- IF SUPPORT IS SUBMERGED OR LOCATED BELOW THE TOP OF WALL IN WATER BEARING STRUCTURE, MATERIAL FOR ANCHOR BOLTS, PIPE, AND L 6" x 6" x 1/2" SHALL BE STAINLESS STEEL. IN ALL OTHER AREAS, MATERIAL FOR ANCHOR BOLTS, PIPE, AND L 6" x 6" x 1/2" SHALL BE HOT-DIP GALVANIZED STEEL UNLESS OTHERWISE INDICATED ON THE DRAWINGS.
- FIELD PAINT GALVANIZED STEEL PER THE SPECIFICATIONS.

FLANGED PIPE SUPPORT

SCALE: NONE

M405 TYP



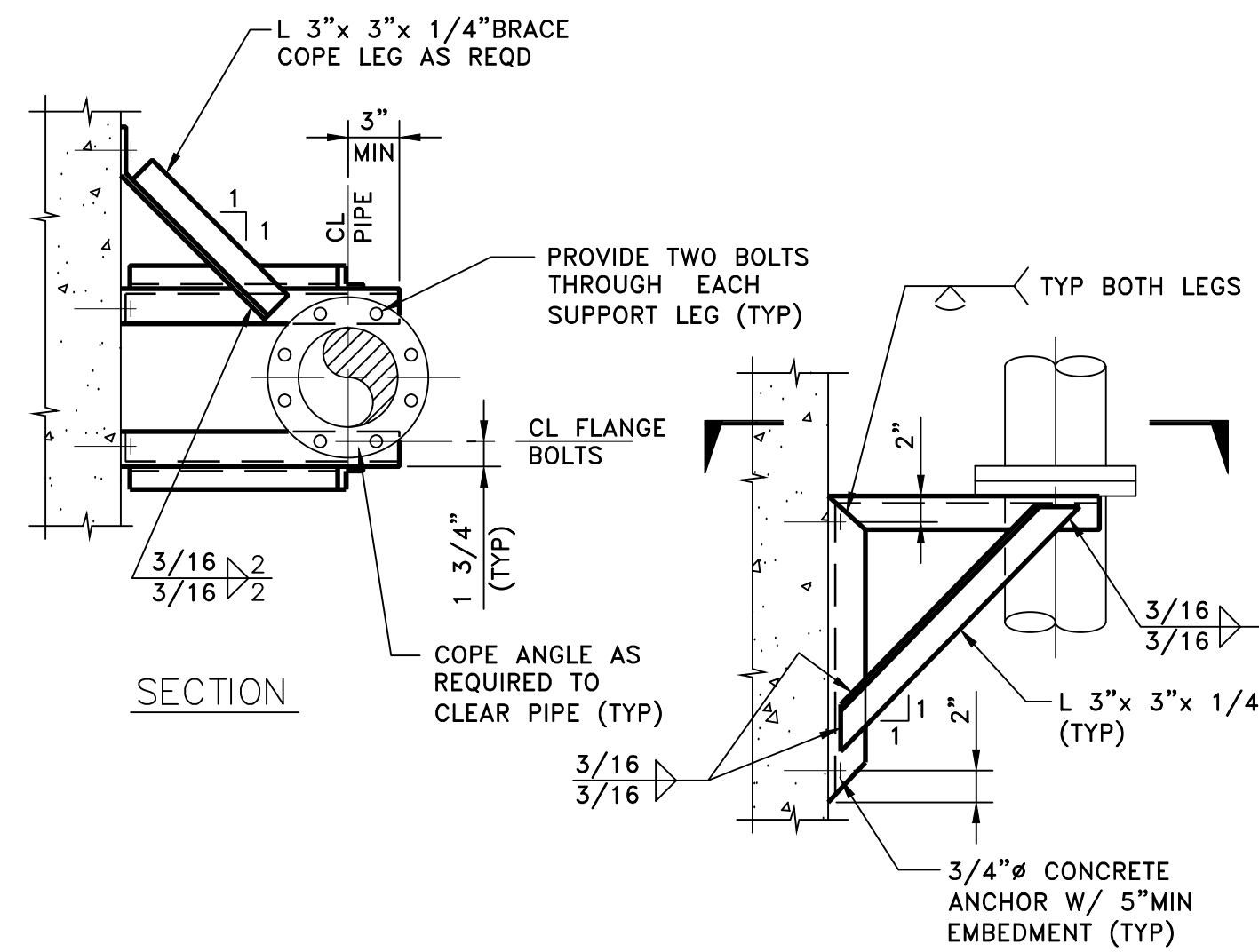
NOTES:

- MAXIMUM ALLOWABLE VERTICAL LOAD IS THE MANUFACTURERS MAXIMUM ALLOWABLE BRACKET LOAD.
- IF VERTICAL LOAD ON BRACKET EXCEEDS 300 LBS, USE L3" x 3" x 1/4" BRACE. COPE LEG AS REQUIRED.
- ISOLATE ALL COPPER PIPE W/ PVC TAPE.
- ALL MATERIAL SHALL BE STAINLESS STEEL IF SUPPORT IS SUBMERGED OR LOCATED BELOW THE TOP OF WALL IN A WATER BEARING STRUCTURE. IN ALL OTHER AREAS, THE MATERIALS SHALL BE HOT-DIP GALVANIZED STEEL UNLESS OTHERWISE INDICATED ON THE DRAWINGS.
- FIELD PAINT GALVANIZED STEEL PER THE SPECIFICATIONS.

KNEE BRACE PIPE SUPPORT

SCALE: NONE

M430 TYP



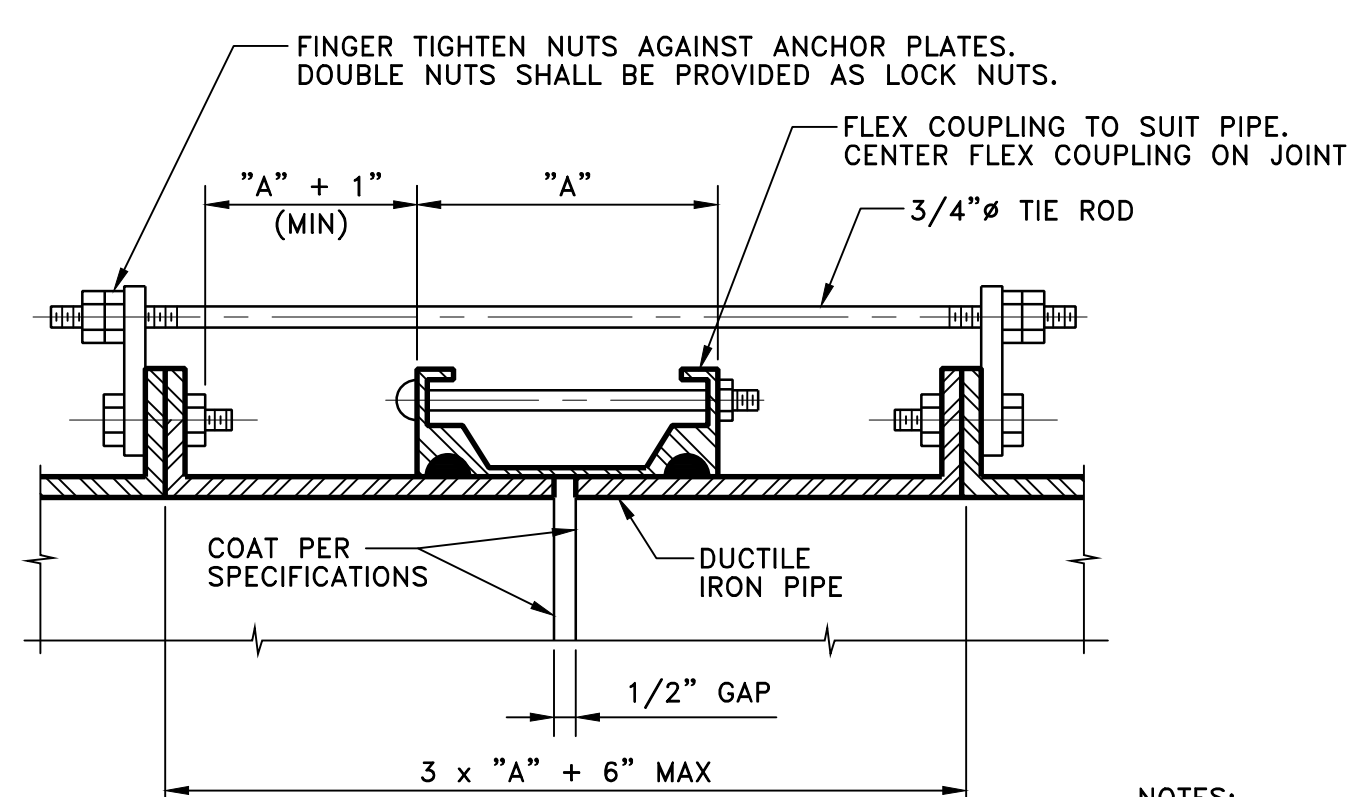
NOTES:

- PIPE SUPPORT IS TO BE USED FOR 4" AND LARGER PIPES. FOR SUPPORTS NOT AT FLANGES USE RISER CLAMPS ONE SIDE WELDED TO SUPPORTS.
- MAXIMUM ALLOWABLE VERTICAL LOAD = 900 POUNDS PER SUPPORT. ADJUST SUPPORTS SPACING AS REQUIRED.
- ALL MATERIAL SHALL BE STAINLESS STEEL IF SUPPORT IS SUBMERGED OR LOCATED BELOW THE TOP OF WALL IN A WATER BEARING STRUCTURE. IN ALL OTHER AREAS, THE MATERIALS SHALL BE HOT-DIP GALVANIZED STEEL UNLESS OTHERWISE INDICATED ON THE DRAWINGS.
- FIELD PAINT GALVANIZED STEEL PER THE SPECIFICATIONS.

VERTICAL PIPE SUPPORT

SCALE: NONE

M432 TYP



NOTES:

- ALL EXPOSED FLEXIBLE COUPLINGS SHALL HAVE TIE RODS UNLESS SPECIFICALLY INDICATED OTHERWISE ON THE DRAWINGS.
- CALCULATE PIPE THRUST BASED ON TEST PRESSURE.
- PIPE THRUST = 0.7854 x D² x TEST PRESSURE (PSI), WHERE D IS PIPE OD IN INCHES.
- MINIMUM YIELD STRENGTH FOR TIE ROD SHALL BE 48,000 PSI.
- FOR THRUSTS GREATER THAN 30,000 POUNDS, ADD ONE 3/4 INCH DIAMETER ROD FOR EVERY 6,000 POUNDS INCREASING THRUST.
- CONTRACTOR MAY USE ONE INCH DIAMETER ROD FOR THRUSTS GREATER THAN 30,000 POUNDS. NUMBER OF ONE INCH RODS = NUMBER OF 3/4 INCH RODS x 0.5625, ROUNDED OFF TO THE NEXT LARGER NUMBER.
- ALL ROD CONNECTIONS SHALL BE TYPE II FOR THRUSTS GREATER THAN 30,000 POUNDS.
- GRIND ALL CORNERS OF ANCHOR PLATES SMOOTH.
- FLEXIBLE COUPLINGS SHALL BE COATED PER SPECIFICATIONS.
- ALL BURIED MATERIALS SHALL BE STAINLESS STEEL.

ROD SCHEDULE FOR DIP		
PIPE THRUST SEE NOTE 2	TYPE OF CONNECTION	NO RODS
0-6,000#	I	2
6,001-12,000#	II	2
12,001-18,000#	II	3
18,001-24,000#	II	4
24,001-30,000#	II	5
> 30,000 #	II	SEE NOTE 5

DIP FLEXIBLE COUPLING TIE DOWN

SCALE: NONE

M490 TYP

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Revision	By	Appd	YYYY.MM.DD

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RECLAMATION IMPROVEMENTS

NEWMAN, CALIFORNIA

File Name: X05593-M03-M05

RG	PR	CA	2019.08.02
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Title

TYPICAL MECHANICAL DETAILS 2

Project No. 2002005593

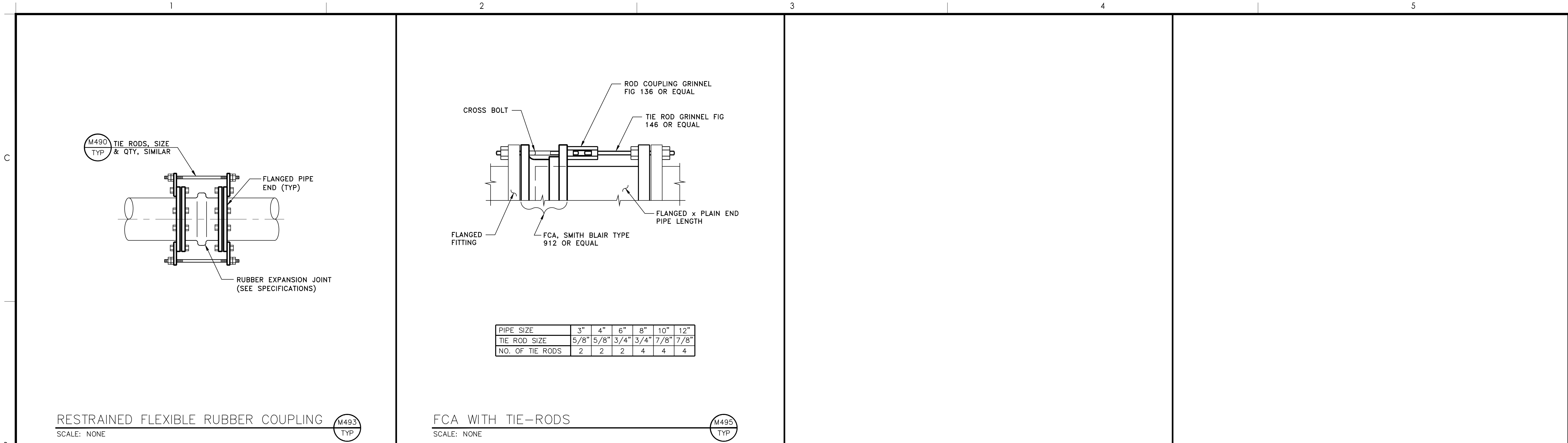
Scale

Revision Sheet Drawing No.

29 of 41

M04

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RESTRAINED FLEXIBLE RUBBER COUPLING (M493 TYP)
SCALE: NONE

FCA WITH TIE-RODS (M495 TYP)
SCALE: NONE

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File Name: X05593-M03-M05

RG	PR	CA	2019.08.02
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Title

TYPICAL MECHANICAL DETAILS 3

Project No. 2002005593

Scale

Revision Sheet Drawing No.

30 of 41 **M05**

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ELECTRICAL SYMBOLS - PLANS			
CLG.	WALL	FLOOR	SYMBOLS DESCRIPTION
○	○		INCANDESCENT OR HID FIXTURE
□	□		FLUORESCENT FIXTURE - CIRCLE INDICATES J-BOX ABOVE
		●	AREA LIGHT AND POLE
⊙	⊙		LIGHTING FIXTURE WITH EMERGENCY BATTERY BACKUP
⊙	⊙	⊙	EXIT FIXTURE, ARROWS AS INDICATED, SHADE AREA INDICATES EXIT FACE
		⊙	EMERGENCY LIGHTING UNIT (BATTERY POWERED)
○ ^{1b}			FIXTURE CONNECTED TO CKT #1, SWITCH "b"
△			FIXTURE TYPE "A", 2-40 WATT LAMPS TYPICAL FOR ROOM NOTED, UON
⊙	⊙		DUPLEX RECEPTACLE
⊙	⊙		DUPLEX RECEPTACLE GFCI TYPE
⊙	⊙		DOUBLE DUPLEX RECEPTACLE
		⊙	RECEPTACLE, TYPE AS NOTED ON PLANS
		⊙	SINGLE POLE SWITCH
		⊙	DOUBLE POLE SWITCH
		⊙	THREE WAY SWITCH
		⊙	FOUR WAY SWITCH
		⊙	"b" DENOTES OUTLET CONTROLLED
		⊙	KEY OPERATED SWITCH
		⊙	MANUAL MOTOR STARTER
		⊙	OCCUPANCY SENSOR
		⊙	TELEPHONE OUTLET
		⊙	DATA OUTLET
		⊙	TELEPHONE/DATA OUTLET
		⊙	THERMOSTAT OUTLET + 66" UON
		⊙	JUNCTION BOX * FOR WALL MTD.
		+18"	INDICATES HEIGHT FROM FINISHED FLOOR GRADE TO CENTERLINE OF DEVICE
		.	+ 18" UON
		**	+ 48" UON
		⊙	CONTROLLER/STARTER FURNISHED WITH EQUIPMENT
		⊙	DETAIL CALL-OUT: X, DETAIL IDENTIFIER; Y, SHEET WHERE DETAIL IS DRAWN

POWER WIRE COLOR CODE					
SYSTEM	PHASE A	PHASE B	PHASE C	NEUTRAL	GROUND
208Y/120V	BLACK	RED	BLUE	WHITE	GREEN
480Y/277V	BROWN	ORANGE	YELLOW	GRAY	GREEN

GENERAL NOTES:

- FIELD VERIFY EXACT LOCATIONS OF UNDERGROUND UTILITIES PRIOR TO BEGINNING WORK.
- REFERENCE MECHANICAL AND CIVIL DRAWINGS FOR NEW AND EXISTING PIPING.
- BELOW GRADE CONDUITS SHALL BE INSTALLED A MINIMUM DEPTH OF 18" BELOW THE FINISHED FLOOR/GRADE OR 18" BELOW ANY PIPE CROSSING THE CONDUIT PATH WHICHEVER IS DEEPER DOWN TO 5 FEET.
- PROVIDE ELECTRICAL SYSTEM TESTING PER CONTRACT SPECIFICATION SECTION 160.30 PRIOR TO ENERGIZING ANY ELECTRICAL EQUIPMENT OR SERVICES.

ELECTRICAL SYMBOLS - PLANS (CONTINUED)	
□	HAND HOLE, 11"x17"x12"D, UON
□	PULLBOX, 36"Hx60"Lx36"D, UON
▲	PAD MOUNTED TRANSFORMER/ DRY TYPE TRANSFORMER
□	NON-FUSIBLE DISCONNECT SWITCH, SIZE AS NOTED ON ONE LINE DIAGRAM
□	FUSIBLE DISCONNECT SWITCH, 3P UON SIZE AS NOTED ON ONE LINE DIAGRAM
□	DISCONNECT WITH EMERGENCY STOP
□	FIELD CONTROL STATION SEE SCHEMATIC DIAGRAM
□	FEEDER DESIGNATION SEE SCHEDULE FOR SIZE
□	EQUIPMENT TAG
---	CONDUIT CONCEALED IN WALLS OR CEILING 3/4"C-2#12, 1#12G, UON
---	CONDUIT UNDER GROUND 3/4"C-2#12, 1#12G, UON
---	CONDUIT EXPOSED 3/4"C-2#12, 1#12G, UON
	QUANTITY #12 WIRE CURVE LINE INDICATES GROUND WIRE
	WIRE SIZE OTHER THAN #12 CURVE LINE INDICATES GROUND WIRE
○	CONDUIT STUBBED UP INTO EQUIPMENT AND PLUGGED
1-TSP	NUMBER OF 18 AWG TWISTED SHIELDED PAIR CABLE
1-TST	NUMBER OF 18 AWG TWISTED SHIELDED TRIAD CABLE
G	CONNECTION TO GROUND BUS.
G	GROUNDING CONDUCTOR 30" BELOW GRADE, #4/0 UON
G	EXOTHERMIC WELD CONNECTION
E-E-E	DUCT BANK
E-E-E	EXISTING UNDERGROUND ELECTRICAL
A-1,3	HOMERUN TO PANEL A, CIRCUIT 1 AND 3
○	CONDUIT BENDS TOWARD OBSERVER
○	CONDUIT BENDS AWAY FROM OBSERVER
○	CONDUIT STUB-OUT AND CAPPED
○	FLEXIBLE CONDUIT CONNECTION
○	MOTOR CONNECTION
○	MOTOR CONNECTION, DISCONNECT FURNISHED WITH MOTOR
SV	SOLENOID VALVE
○	DISCONNECTS OR COMBINATION STARTERS SERVING EQUIPMENT SHOWN, PROVIDE CONNECTING FEEDERS BETWEEN DEVICES, SIZE TO MATCH SERVING FEEDER.
□	POWER DISTRIBUTION SWITCHBOARD
□	SURFACE MOUNTED PANELBOARD
□	FLUSH MOUNTED PANELBOARD
⊙	SHEET NOTE, SEE NOTE INDICATED
□	DEVICE CONNECTION POINT
⊙	INTERCEPTION POINT FROM EXISTING TO NEW

ELECTRICAL SYMBOLS - ONE LINE DIAGRAM	
DM	DIGITAL MULTI-FUNCTION METER
TT	CURRENT TRANSFORMER, QUANTITY INDICATED
TT	POTENTIAL TRANSFORMER, QUANTITY INDICATED
○	POWER TRANSFORMER
○	FEEDER DESIGNATION SEE SCHEDULE OR ONE LINE DIAGRAM FOR SIZE
30A MCP	CIRCUIT BREAKER 3 POLE UNLESS NOTED MCP INDICATES MOTOR CIRCUIT PROTECTOR
4 RV	MAGNETIC MOTOR STARTER, NEMA SIZE INDICATED FULL-VOLTAGE NON-REVERSING UNLESS NOTED RV=REDUCED VOLTAGE STARTING 2S, 2W = 2 SPEED, 2 WINDING
□	FUSE
□	DISCONNECT SWITCH, NON-FUSIBLE, SEE PLANS FOR RATING
□	DISCONNECT SWITCH, FUSIBLE, SEE PLANS FOR RATING
10	MOTOR, 10 HORSEPOWER
G	GENERATOR
○	SURGE ARRESTER
	GROUND
△	DELTA CONNECTION
Y A	WYE CONNECTION
PFR	POWER FAILURE RELAY
VFD	VARIABLE FREQUENCY DRIVE
RVS	REDUCED-VOLTAGE SOLID STATE STARTER
□	CONTROLLER/STARTER FURNISHED WITH EQUIPMENT
GFP	GROUND FAULT PROTECTION
▲	INCOMING ELECTRIC SERVICE

ELECTRICAL SYMBOLS - SCHEMATIC DIAGRAMS		
NORMALLY OPEN	NORMALLY CLOSED	DEVICE
□	□	CONTACT
□	□	TIMED CONTACT CONTACT ACTION RETARDED ON ENERGIZATION
□	□	TIMED CONTACT CONTACT ACTION RETARDED ON DE-ENERGIZATION
□	□	PUSH BUTTON SINGLE CIRCUIT MOMENTARY CONTACT
□	□	PUSH BUTTON SINGLE CIRCUIT LOCK-OUT
□	□	LIMIT SWITCH
□	□	LIQUID LEVEL SWITCH
□	□	PRESSURE OR VACUUM SWITCH
□	□	FLOW SWITCH
□	□	TEMPERATURE SWITCH
□	□	SELECTOR SWITCH
□	□	MANUAL MOTOR STARTER
□	□	DOOR INTERLOCK SWITCH
□	□	MOTOR OVERLOAD RELAY CONTACT
□	□	MOTOR OVERLOAD HEATER
□	□	PILOT LIGHT R=RED, W=WHITE, G=GREEN, A=AMBER, C=CLEAR
□	□	PILOT LIGHT-PUSH TO TEST
□	□	RELAY
□	□	TIME DELAY RELAY
□	□	STARTER COIL
□	□	SOLENOID OPERATED VALVE
□	□	MOTOR
□	□	BELL OR BUZZER
□	□	ELAPSED TIME METER
□	□	FUSE
□	□	CONTROL POWER TRANSFORMER
□	□	GROUND
□	□	WIRING IN MOTOR STARTER OR CONTROL PANEL
□	□	FIELD WIRING
□	□	TERMINAL BLOCK IN FCS
□	□	TERMINAL BLOCK IN MOTOR STARTER OR PANEL
□	□	TERMINAL BLOCK IN PLC
□	□	POWER FAILURE
□	□	SPACE HEATER
□	□	RESISTOR
□	□	CIRCUIT BREAKER
□	□	PLC OUTPUT ISOLATION RELAY

ELECTRICAL ABBREVIATIONS	
A	AMPERES
AC	ALTERNATING CURRENT
AICS	AMPERES INTERRUPTING CAPACITY, SYMMETRICAL
AIP	ABANDON IN PLACE
AT&T	ATLANTIC TELEPHONE AND TELEGRAPH
AWG	AMERICAN WIRE GAUGE
BC	BARE COPPER
/C	MULTI-CONDUCTOR CABLE
C	CONDUIT, CONDUCTOR
CB	CIRCUIT BREAKER
CL	CONTINUOUS LOAD
CKT	CIRCUIT
CNTL	CONTROL
CO	CONDUIT ONLY
CPT	CONTROL POWER TRANSFORMER
CT	CURRENT TRANSFORMER
DC	DIRECT CURRENT
DTB	DATA TERMINAL BOARD
DTL	DETAIL
DWG	DRAWING
E	EXISTING
ELEV	ELEVATION, ELEVATOR
EOL	ELECTRONIC OVERLOAD
FAP	FIRE ALARM PANEL
FCS	FIELD CONTROL STATION
FLUOR	FLUORESCENT
FO	FIBER OPTIC
G, GND	GROUND
GFCI	GROUND-FAULT CIRCUIT INTERRUPTER
GFP	GROUND-FAULT PROTECTION
HH	HANDHOLE
HOA	HAND OFF AUTOMATIC
HP	HORSEPOWER
HPS	HIGH PRESSURE SODIUM
HVAC	HEATING, VENTILATING, AND AIR CONDITIONING
HZ	HERTZ
JB	JUNCTION BOX
KCMIL	THOUSAND CIRCULAR MILS
KVA	KILOVOLT-AMPERES
KW	KILOWATT
LSIG	LONG TIME, SHORT TIME, INSTANTANEOUS AND GROUND FAULT
LTG	LIGHTING
MA	MILLIAMPERE
MAX	MAXIMUM
MCC	MOTOR CONTROL CENTER
MIN	MINIMUM
MLO	MAIN LUGS ONLY
MM	MULTI MODE
MTD	MOUNTED
MSC	MANUFACTURER SUPPLIED CABLE
N	NEUTRAL
NC	NORMALLY CLOSED
NIC	NOT IN CONTRACT
NO	NORMALLY OPEN
NO.	NUMBER
NTS	NOT TO SCALE
P	POLE
PB	PUSH BUTTON, PULL BOX
PC	PHOTO CELL
PFM	POWER FAIL MONITOR
PG&E	PACIFIC GAS & ELECTRIC
PH, Ø	PHASE
PLC	PROGRAMMABLE LOGIC CONTROLLER
PS	PRESSURE SWITCH
PSW	PAD MOUNTED SWITCH
PT	POTENTIAL TRANSFORMER
PVC	POLYVINYL CHLORIDE
RECP	RECEPTACLE
REF	REFERENCE
REQ'D	REQUIRED
RR	REMOVE AND REINSTALL
RS	REMOVE AND SAVE
RW	REMOVE AND WASTE
SW	SWITCH
TB	TERMINAL BOARD
TEL	TELEPHONE
TM	THERMAL MAGNETIC
TSP	TWISTED SHIELDED PAIR
TTB	TELEPHONE TERMINAL BOARD
TYP	TYPICAL
UG	UNDERGROUND
UON	UNLESS OTHERWISE NOTED
VFD	VARIABLE FREQUENCY DRIVE
W	WATTS, WIRE
WP	WEATHERPROOF
XFMR	TRANSFORMER

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 ORIGINAL SHEET - ANSI D

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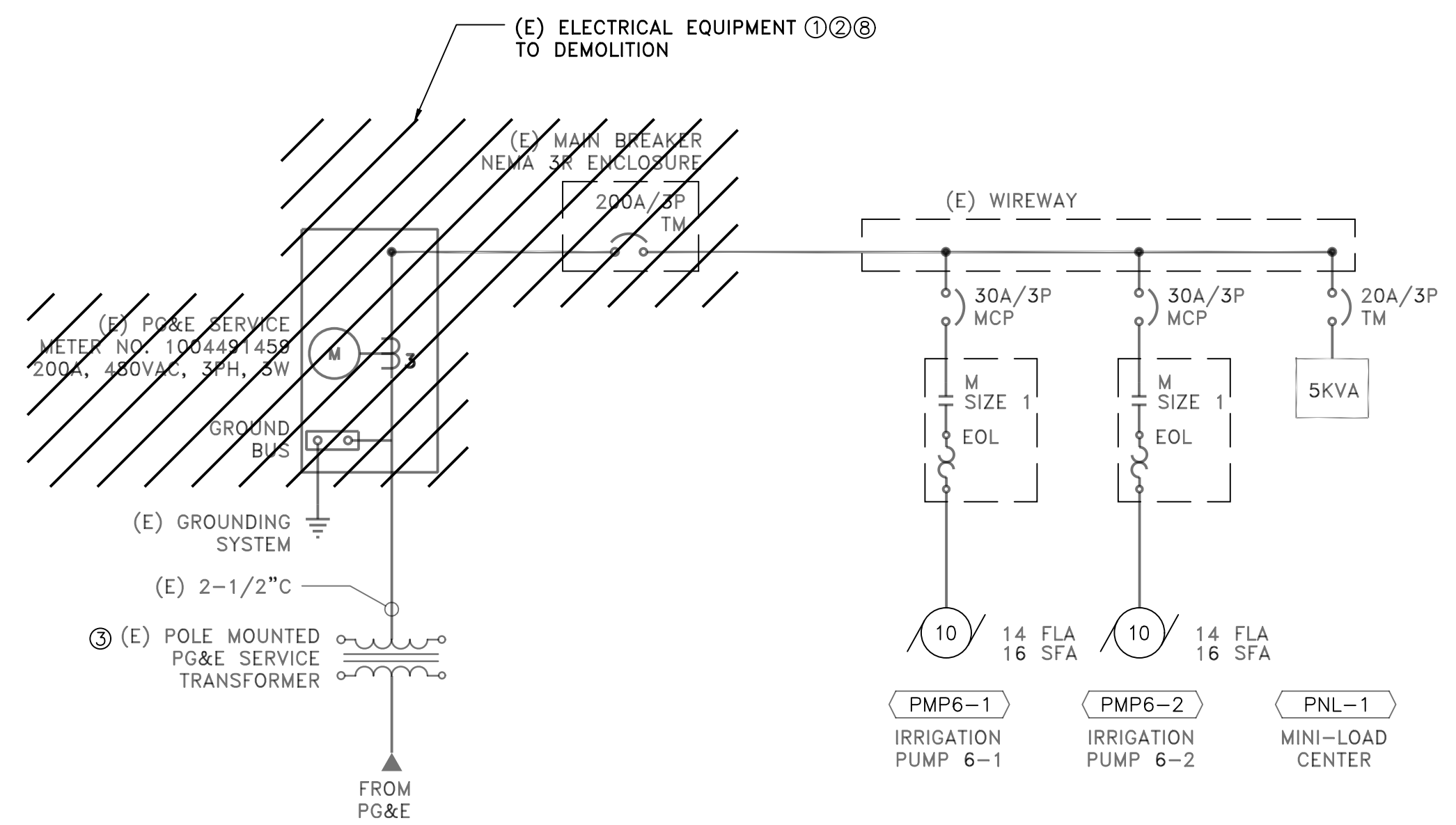
Title
ELECTRICAL SYMBOLS AND ABBREVIATIONS

Project No.
2002005593

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Revision Sheet
31 of 41

Drawing No.
E01

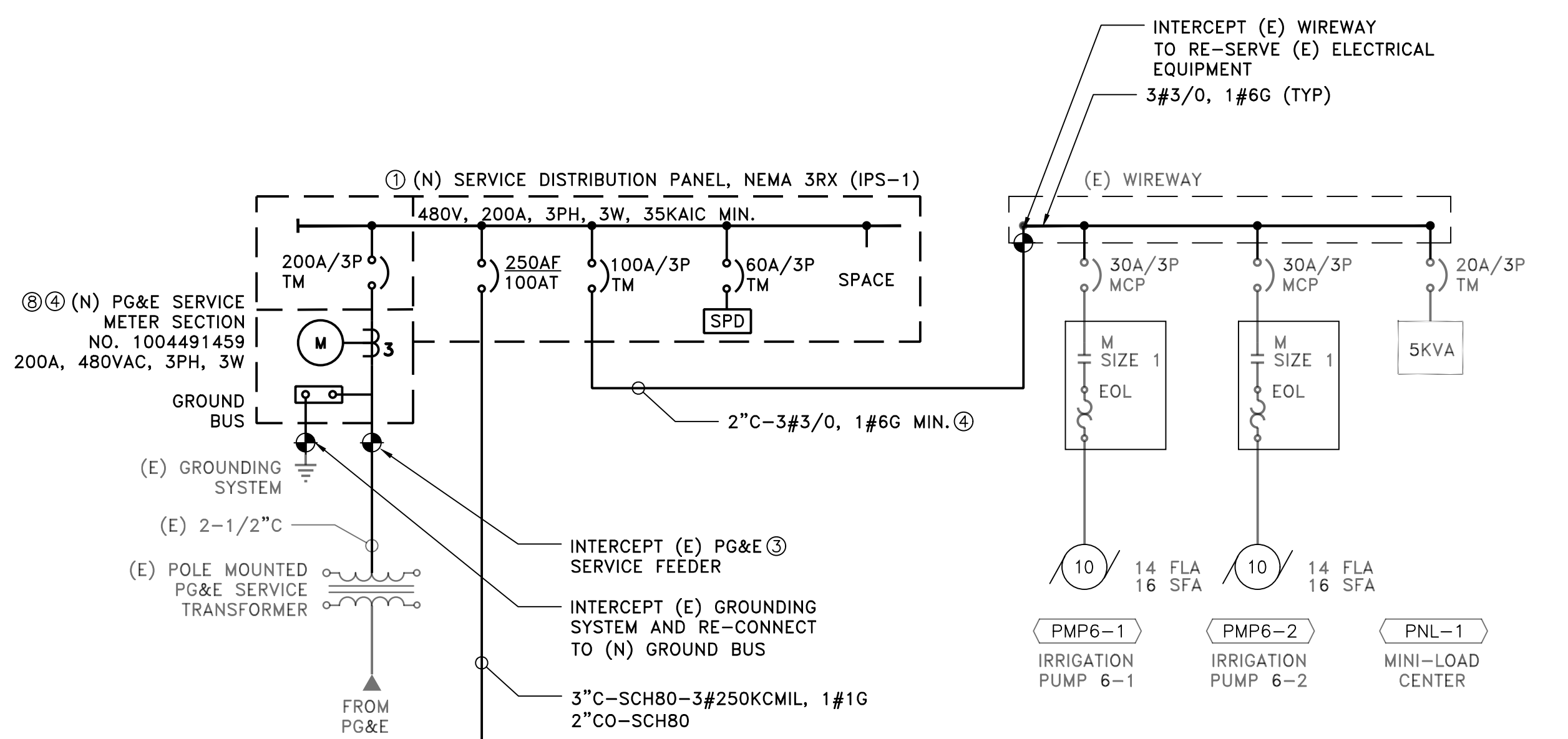


SINGLE LINE DIAGRAM - DEMOLITION PLAN
SCALE: NONE

LOAD CALCULATION							
LOAD CENTER: (E) SERVICE PANEL (IPS-1)				480 VAC, 3 PHASE SERVICE 3 WIRE			
FED FROM: (E) UTILITY TRANSFORMER				CONNECTED		UTILITY	
EQUIPMENT NUMBER	HP	MOTOR CONTROL	EQUIPMENT DESCRIPTION	LOAD (AMPS)	QTY	LOAD (KVA)	RUN QTY
PMP6-1,PMP6-2	10	FVNR	IRRIGATION PUMP STATION 1 PUMPS	14.0	2	23.3	2
PNL-1	5KW	CB	MINI-LOAD CENTER	6.0	1	5.0	1
IRRIGATION PS PNL-8-1		CB	(N) IRR PS 2 PNL	66.0	1	54.9	1
SUBTOTAL						83.2	
LARGEST MOTOR @ 25%				10	HP		13.7
TOTAL							96.9
3 PHASE CURRENT				117 AMPS			
CALCULATED SERVICE SIZE				100% MAXIMUM LOAD CURRENT			
MAIN BREAKER SIZE				117 AMPS			
% MAIN BREAKER LOAD				200 AMPS			
				58%			

LOAD CALCULATION							
LOAD CENTER: (N) IRR PS 2 PNL (IPS-2)				480 VAC, 3 PHASE SERVICE 3 WIRE			
FED FROM: (N) SERVICE PANEL				CONNECTED		UTILITY	
EQUIPMENT NUMBER	HP	MOTOR CONTROL	EQUIPMENT DESCRIPTION	LOAD (AMPS)	QTY	LOAD (KVA)	RUN QTY
PMP8-1,PMP8-2	20	VFD	IRRIGATION PUMP STATION 2 PUMPS	27.0	2	44.9	2
PNL-8	10KVA	CB	MINI-LOAD CENTER	12.0	1	10.0	1
SUBTOTAL						54.9	
LARGEST MOTOR @ 25%				20	HP		5.6
TOTAL							60.5
3 PHASE CURRENT				73 AMPS			
CALCULATED SERVICE SIZE				100% MAXIMUM LOAD CURRENT			
MAIN BREAKER SIZE				73 AMPS			
% MAIN BREAKER LOAD				100 AMPS			
				73%			

- DEMO SHEET NOTES:**
- REMOVED AND WASTE (E) PG&E SERVICE METER PANEL AND MAIN DISCONNECT WITH (E) AS INDICATED ON SINGLE LINE DIAGRAM B/E02.
 - CONTRACTOR SHALL TURN OVER REMOVED EQUIPMENT TO OPERATIONS.
 - CONTRACTOR SHALL COORDINATE POWER DISCONNECTION REQUIREMENTS TO REMOVE AND REPLACE (E) SERVICE METER PANEL.
 - REMOVE (E) CONDUITS AND CIRCUITRY (WIRING) BETWEEN PG&E SERVICE FEEDER AND (E) WIREWAY.



SINGLE LINE DIAGRAM - MODIFICATION PLAN
SCALE: NONE

- MODIFICATION SHEET NOTES:**
- PROVIDE (N) SERVICE METER PANEL WITH INTEGRATED METER SECTION, METER MAIN, AND ELECTRICAL DISTRIBUTION SECTION. ALL CIRCUIT BREAKERS SHALL HAVE LOCKABLE PROVISIONS. PANEL SHALL HAVE INTEGRATED TYPE 2 SPD WITH RATING AS NOTED IN ELECTRICAL SPECIFICATION 16051. THE (N) METER SECTION SHALL BE "EUSERC" APPROVED PER PG&E GREENBOOK REQUIREMENT.
 - PROVIDE (N) POWER DISTRIBUTION PANEL WITH INTEGRATED TYPE 2 SPD WITH RATING AS NOTED IN ELECTRICAL SPECIFICATION 16051.
 - INTERCEPT (E) PG&E SERVICE FEEDER AND RECONNECT TO (N) SERVICE PANEL. CONTRACTOR SHALL COORDINATE WITH PG&E TO RE-SERVE PANEL AND INSTALLATION OF (N) SERVICE PANEL.
 - CONTRACTOR SHALL COORDINATE WITH PG&E FOR SERVICE SHUTDOWN REQUIREMENTS.
 - PROVIDE (N) 2" PVC-GRS CONDUIT BETWEEN (N) DISTRIBUTION SECTION AND (E) WIREWAY. PROVIDE (N) CONDUCTORS AND RE-SERVE (E) EQUIPMENT.
 - PROVIDE COMBINATION VFD WITH LOCKABLE DISCONNECTS, LINE FILTERS, AND CONTROL REQUIREMENTS PER E03.
 - PROVIDE (3) SPARE 15A/1P CIRCUIT BREAKERS.
 - CONTRACTOR SHALL BE RESPONSIBLE FOR PG&E SERVICE APPLICATION AND COORDINATION REQUIRED FOR SERVICE UPGRADE. REFERENCE SPEC SECTION 16010 FOR ADDITIONAL REQUIREMENTS.

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NEWMAN, CALIFORNIA

File Name: 05593-E02A

2019.08.02

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Title

ELECTRICAL SINGLE LINE DEMO/MODIFICATIONS AND LOAD CALCULATIONS

Project No. 2002005593

Scale: NOT TO SCALE

Revision Sheet Drawing No.

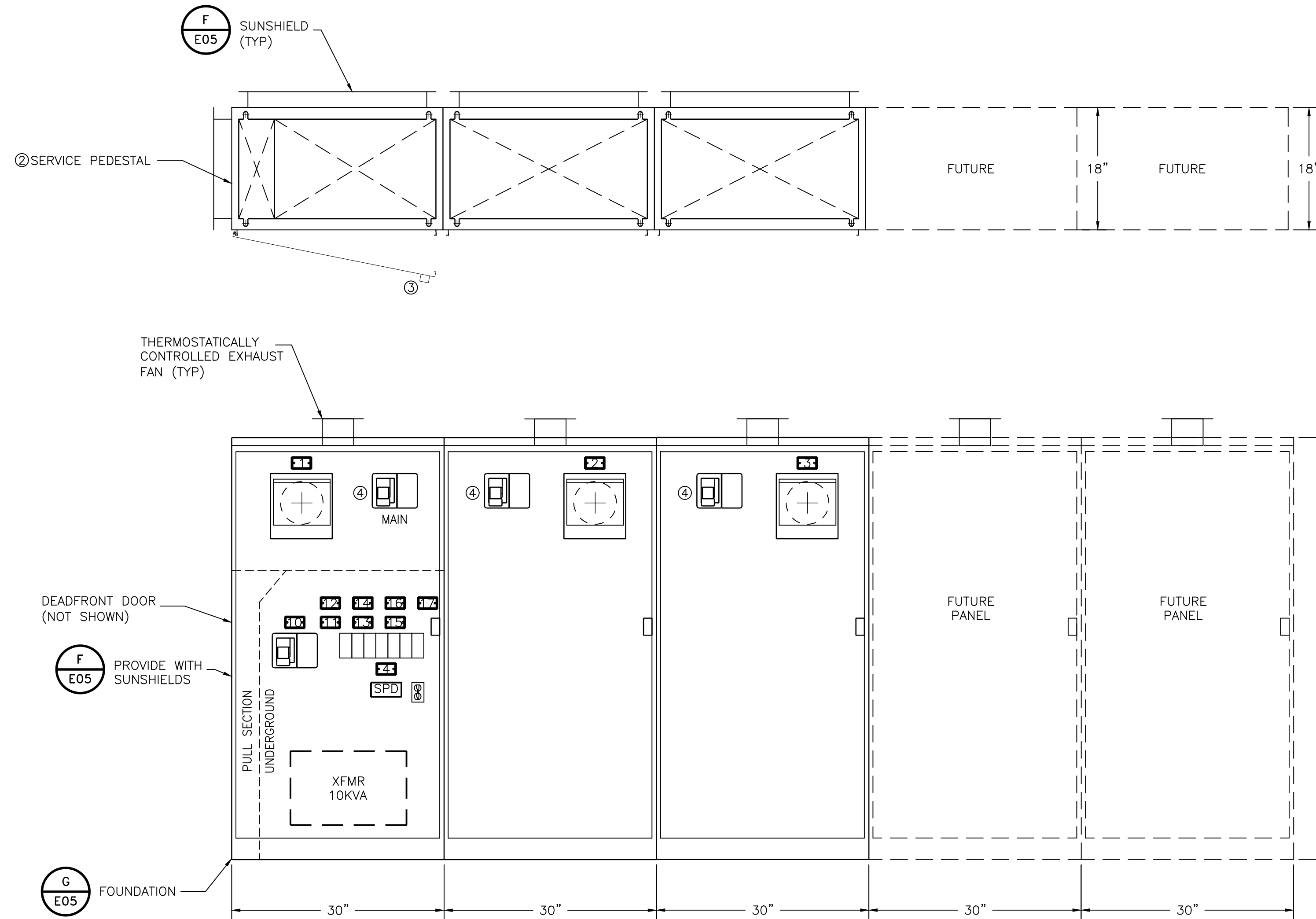
32 of 41 **E02A**

GENERAL ENCLOSURE NOTES

1. EXTERIOR 12 GAUGE HOT DIPPED STAINLESS STEEL, INTERIOR DEAD FRONT PANEL AND BACK PAN SHALL BE 14 GAUGE COLD ROLLED STEEL ELECTRICALLY WELDED AND REINFORCED WHERE REQUIRED.
2. CONSTRUCTION IS NEMA 4X, RAIN TIGHT AND DUST TIGHT, RATED FOR OUTDOOR USE.
3. ALL NUTS, BOLTS, SCREWS AND HINGES SHALL BE STAINLESS STEEL.
4. NUTS, BOLTS AND SCREWS SHALL NOT BE VISIBLE FROM OUTSIDE OF ENCLOSURE.
5. DOOR SHALL HAVE THREE POINT LATCHING MECHANISM WITH PADLOCKABLE HASP.
6. PROVIDE PHENOLIC NAMEPLATES TO IDENTIFY ALL DEVICES AND OPERATOR CONTROLS.
7. CONTROL WIRING WILL BE MARKED AT BOTH ENDS BY PERMANENT WIRE MARKERS.
8. A LAMINATED PLASTIC COVERED WIRING DIAGRAM WILL BE ATTACHED TO THE INSIDE OF THE FRONT DOOR.
9. ENCLOSURE WILL BE FACTORY WIRED AND CONFORM TO REQUIRED NEMA STANDARDS.
10. ENCLOSURE WILL BE U.L. LISTED AS INDUSTRIAL CONTROL PANELS U.L. 508 FILE NO. E62062.
11. ENCLOSURE SHALL BE OF TWO PIECE CONSTRUCTION, ONE METER SECTION AND ONE SERVICE SECTION.
12. EXTERIOR COLOR: WHITE. INTERIOR COLOR: WHITE.

SHEET NOTES:

- 1 PROVIDE SUNSHIELDS PER DETAIL TO TOP, SIDE AND REAR PANEL.
- 2 PROVIDE NEMA 4X MINIMUM RATED PANEL.
- 3 PROVIDE HINGED LOCKABLE FRONT PANEL DOOR TO PREVENT UNAUTHORIZED PERSONNEL ACCESS.
- 4 PROVIDE CIRCUIT BREAKERS WITH PERMANENT LOCKABLE PROVISIONS.



UTILITY DIVISION OF WORK		
DESCRIPTION OF WORK	ELECTRICAL CONTRACTOR	UTILITY COMPANY
PRIMARY CONDUITS	✓	
PRIMARY CONDUCTORS		✓
PRIMARY UTILITY VAULTS (IF SHOWN)	✓	
SECONDARY CONDUITS	✓	
SECONDARY CONDUCTORS		✓
TRANSFORMER PAD	✓	
TRANSFORMER		✓
TRANSFORMER CONNECTIONS		✓
BOLLARDS	✓	
METER ENCLOSURE AND BASE	✓	
UTILITY METER		✓
CT ENCLOSURE	✓	
CURRENT TRANSFORMERS (CT)		✓

POWER UTILITY INFORMATION	
UTILITY COMPANY	PG&E
CONTACT NAME	
PHONE NUMBER	
APPLICATION NO.	
EMAIL	
STREET ADDRESS	
CITY, STATE ZIP+4	

NAMEPLATE SCHEDULE			
NO.	NAMEPLATE SIZE	LETTER SIZE	LABEL
1	2" x 3"	1/2"	IRRIGATION PUMP STATION
2	1" x 2.5"	1/4"	IPS2 PUMP 1
3	1" x 2.5"	1/4"	IPS2 PUMP 2
4			
5			
6			
7			
8			
9			
10	1" x 2.5"	1/4"	XFMR PRIMARY DSC
11	1" x 2.5"	1/4"	SPD
12	1" x 2.5"	1/4"	FE/FTB-1
13	1" x 2.5"	1/4"	GFCI RECEPTACLE
14	1" x 2.5"	1/4"	SPARE
15	1" x 2.5"	1/4"	SPARE
16	1" x 2.5"	1/4"	SPARE
17	1" x 2.5"	1/4"	SPARE

SERVICE PEDESTAL AND CONTROL PANEL
SCALE: NONE

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File Name: 05593-E02B

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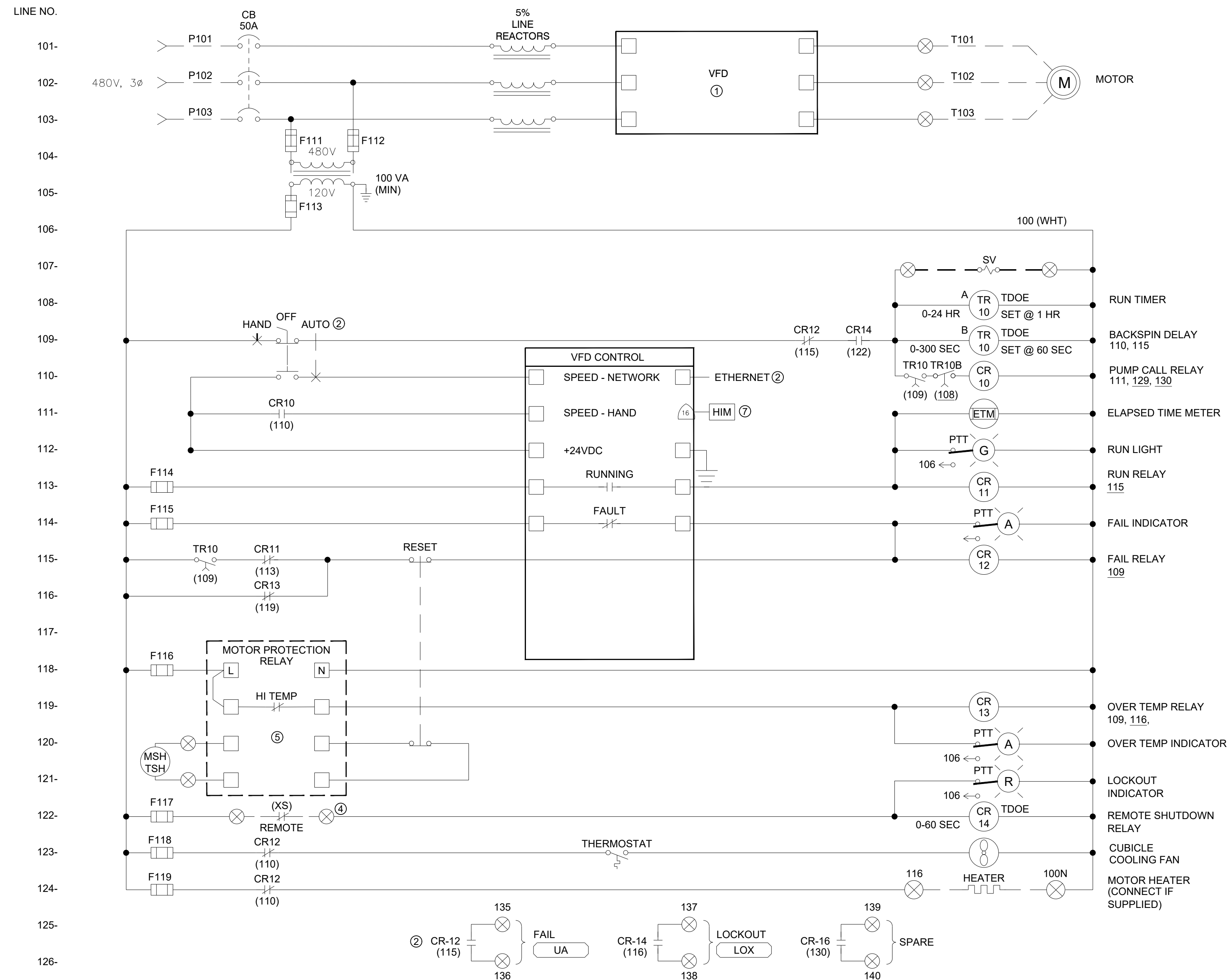
ELECTRICAL ELEVATIONS

Project No. 2002005593

Scale NOT TO SCALE

Revision Sheet Drawing No.

33 of 41 **E02B**



VFD ELEMENTARY DIAGRAM
SCALE: NONE

ENCLOSURE ELEVATION
SCALE: NONE

SHEET NOTES:

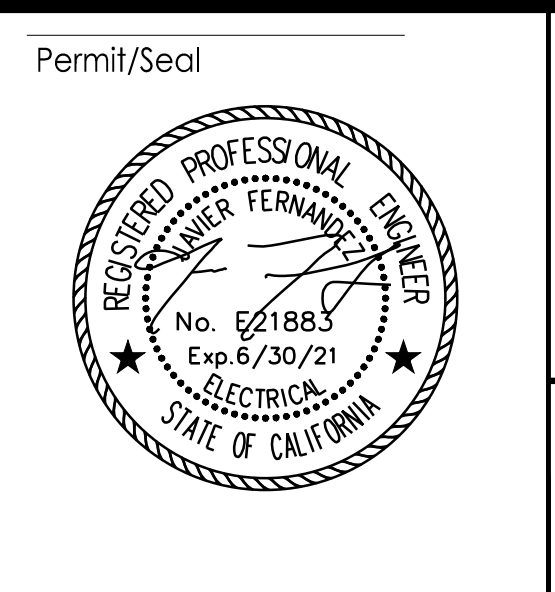
- BUILT-IN PHASE REVERSAL, BYPASS, PHASE LOSS AND UNDER VOLTAGE PROTECTION RELAYS.
- INSTALL "AUTO" PROVISIONS FOR (F) PLC CONTROLS AND WIRELESS COMMUNICATIONS.
- VFD AND EQUIPMENT COMPONENTS SHALL BE UL 508, NEMA ICS 6 TYPE 3R GASKETED ENCLOSURE WITH VENTILATION AND REPLACEABLE FILTERS COLORED LIGHT GRAY.
- REMOTE SHUTDOWN XS=> LSL, LSH, PSH, ETC.PER ELECTRICAL DRAWING E06/DETAIL B. JUMPER IF NOT USED. THESE ARE TO BE CONTACTS OFF OF AUXILIARY RELAY CONTACTS LOCATED IN VFD ENCLOSURE FROM FIELD DEVICE.
- INSTALL MOTOR PROTECTION RELAY. DEVICES IN ENCLOSURE AS RECOMMENDED BY THE MANUFACTURER. RELAY PROVIDED BY PUMP MANUFACTURER AND INSTALLED BY SYSTEM SUPPLIER.
- ILLUMINATED PUSH BUTTON RESET. TRIP CAUSE LED STATUS.
- PROVIDE VFD WITH INTEGRAL SPEED CONTROL VIA HMI.
- PROVIDE ADJUSTABLE 0-24HR RUN TIMER MOUNTED TO FRONT OF VFD ENCLOSURE.

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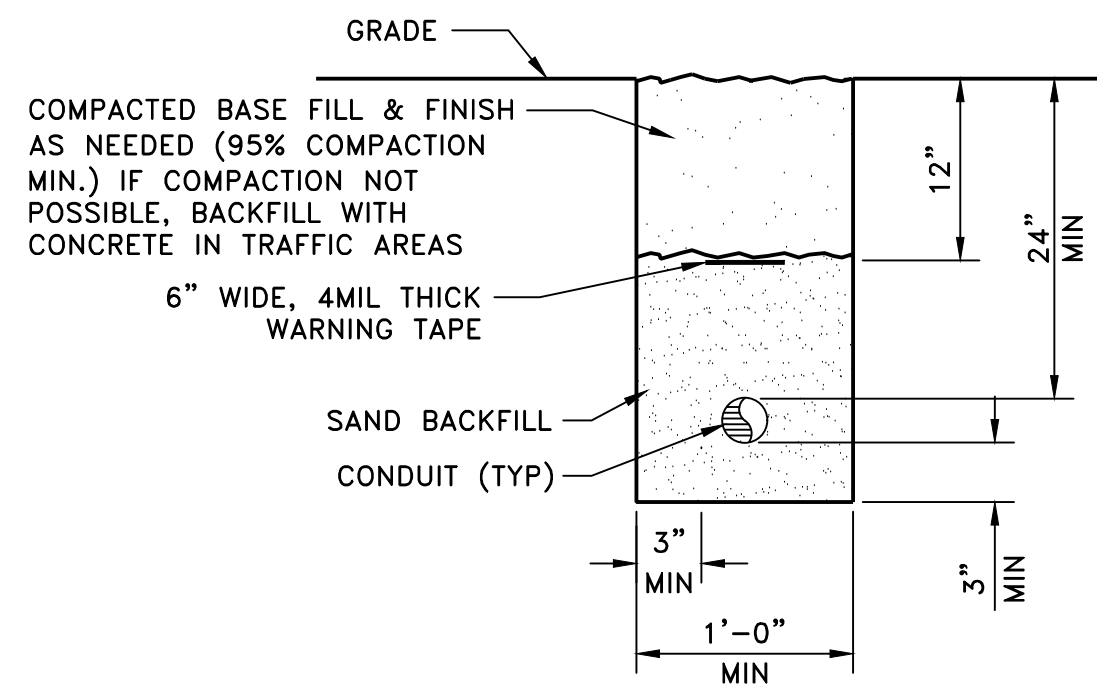
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VFD ELEMENTARY WIRING DIAGRAM

Project No.
2002005593

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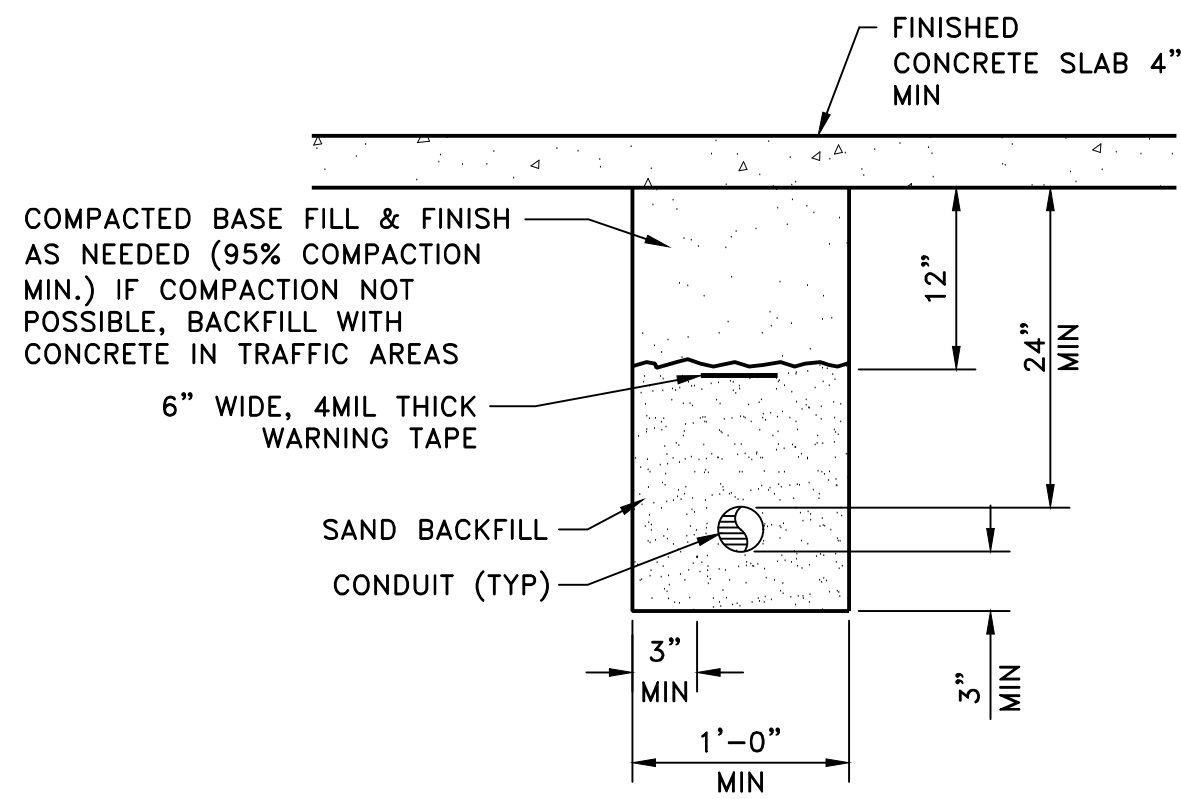
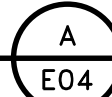
Revision Sheet
34 of 41

Drawing No.
E03



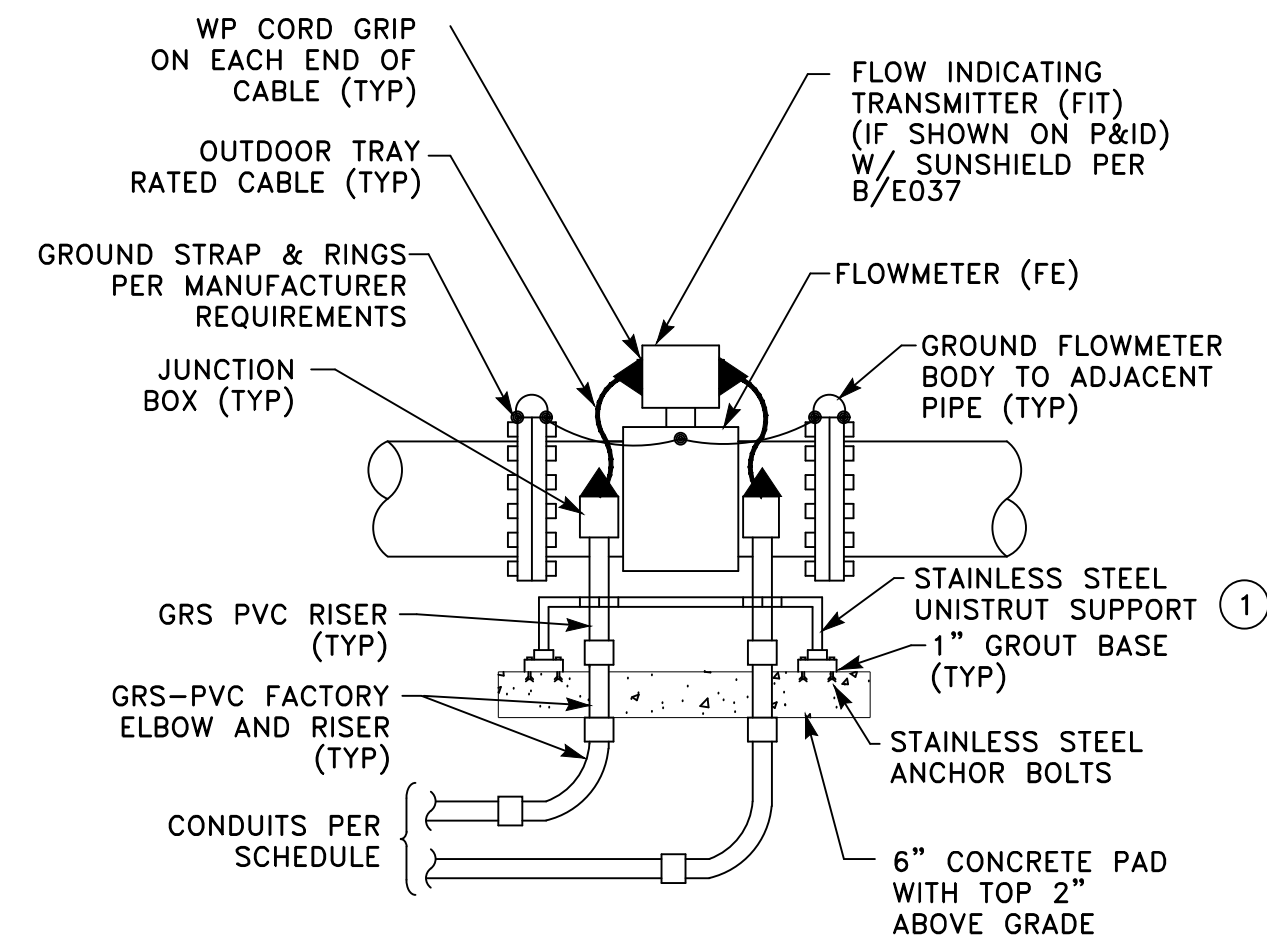
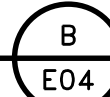
TRENCH DETAIL

SCALE: NONE



UNDER SLAB TRENCH DETAIL

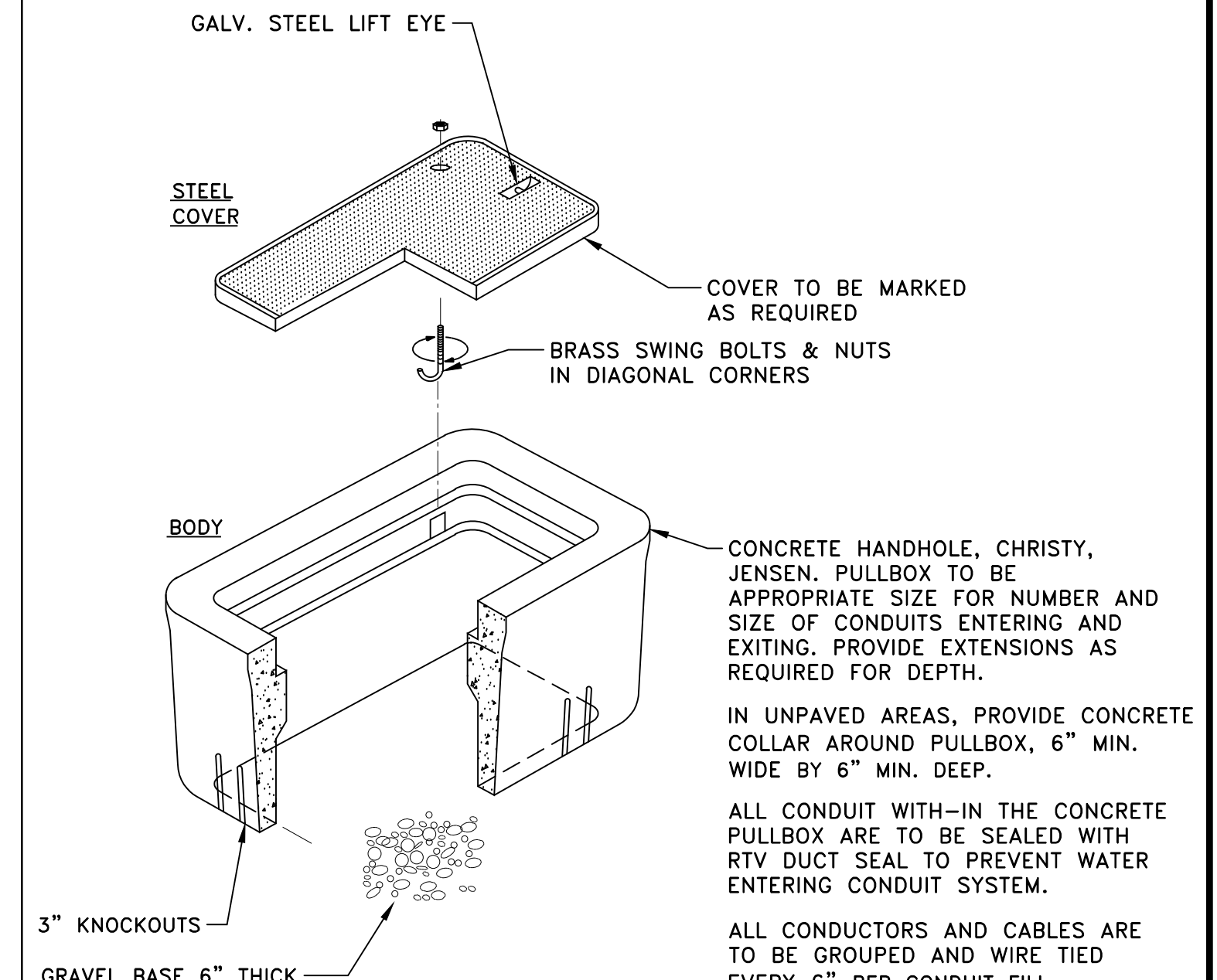
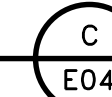
SCALE: NONE



NOTES: ① SUPPORT WITH TWO HOLE BASE ON EACH SIDE AND HEIGHT OF HORIZONTAL UNISTRUT SUPPORT TO BE 12" MINIMUM.

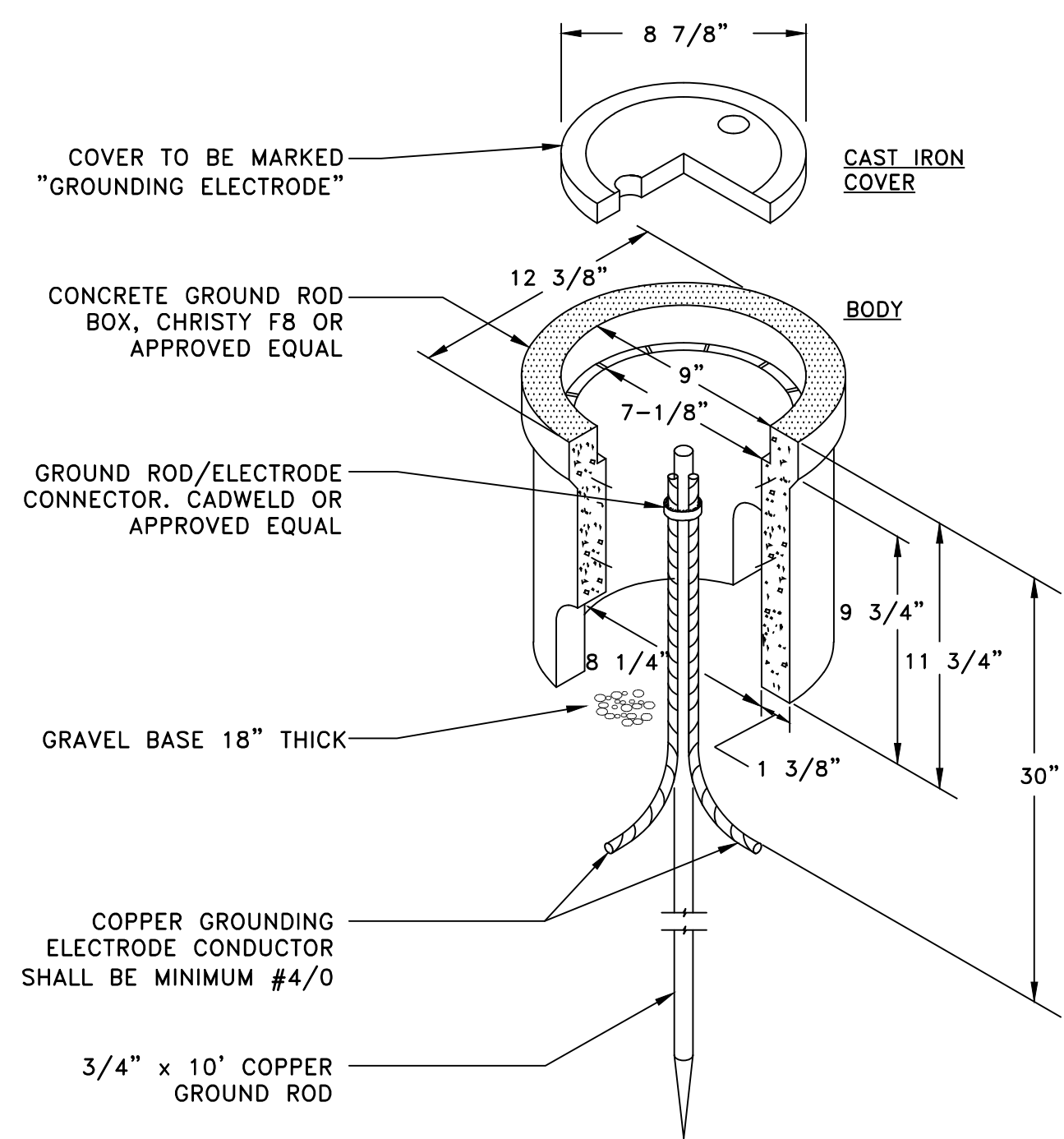
ABOVE GRADE FLOW METER DETAIL

SCALE: NONE



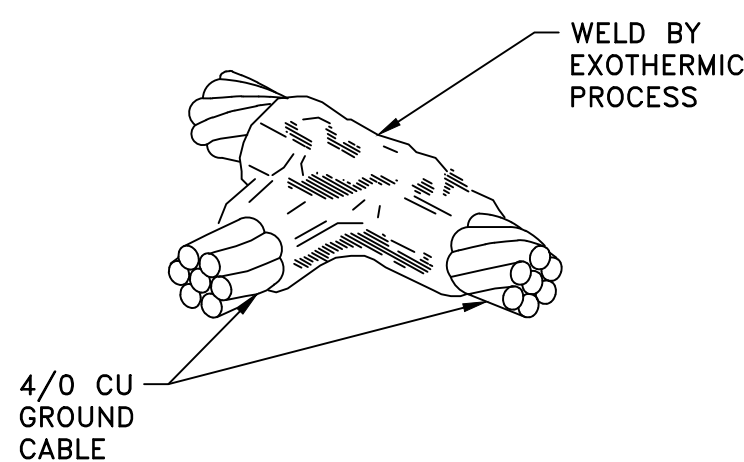
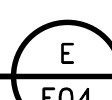
CONCRETE HANDHOLE DETAIL

SCALE: NONE



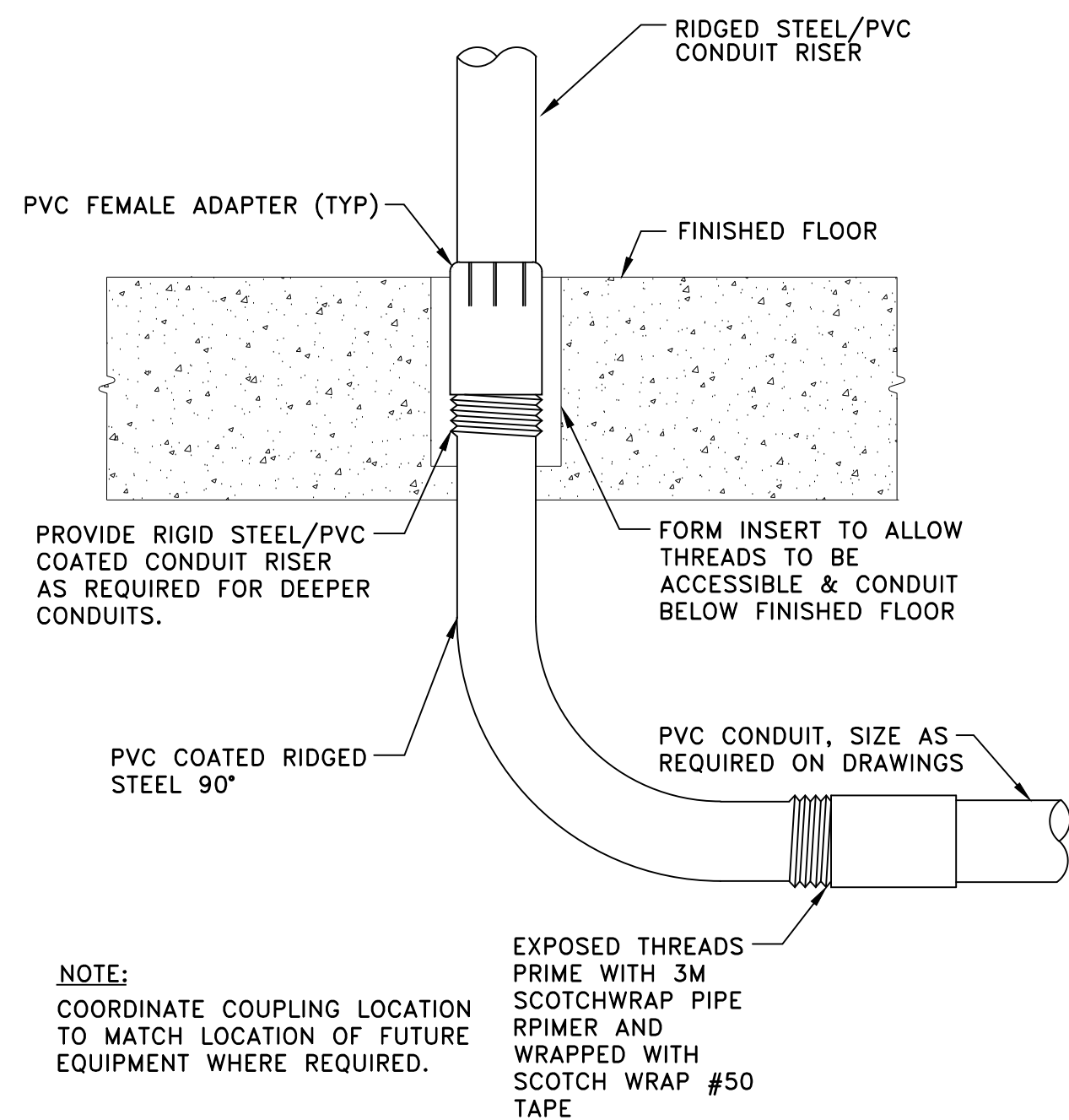
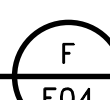
GROUND WELL DETAIL

SCALE: NONE



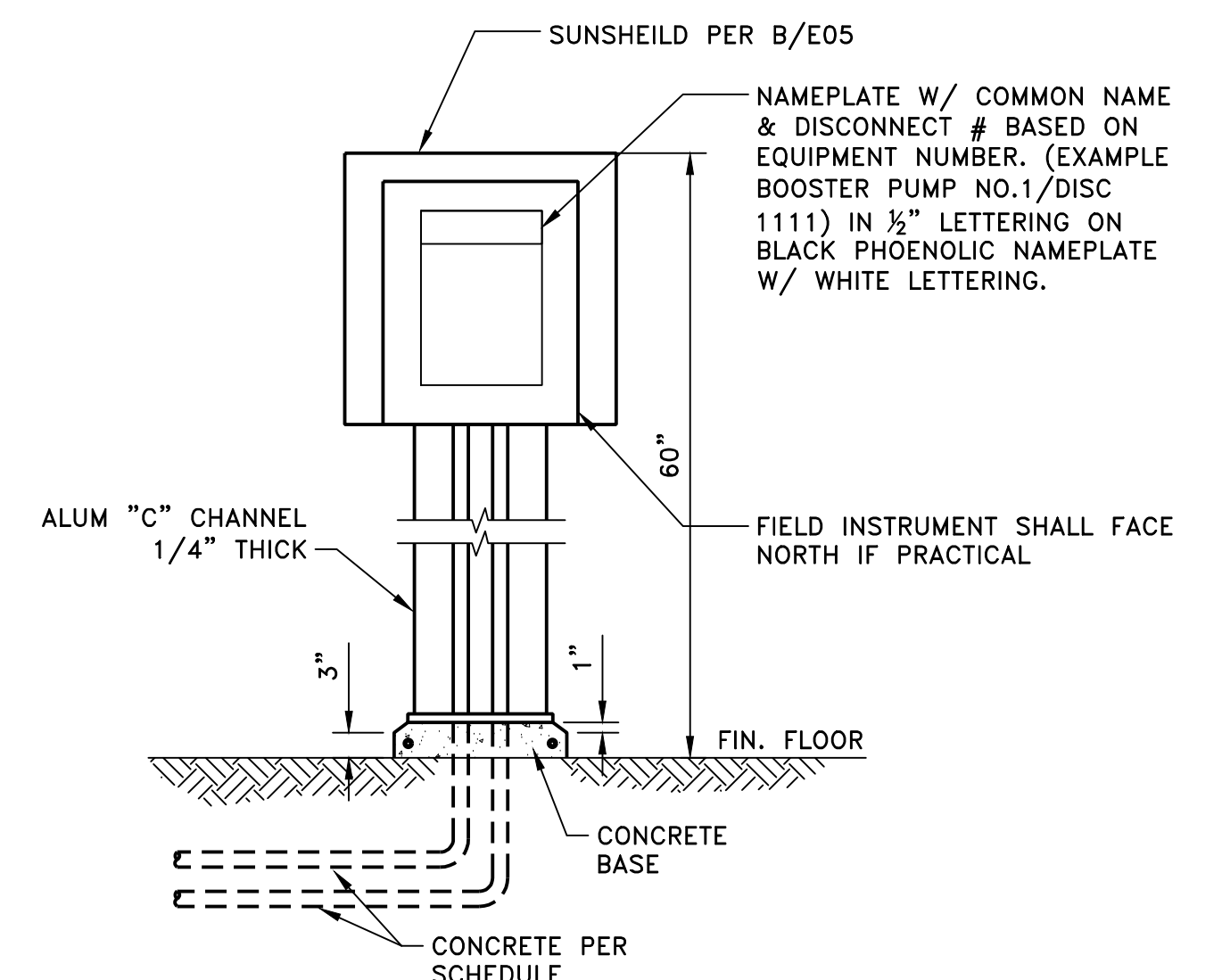
GROUND CONNECTION DETAIL

SCALE: NONE



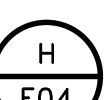
BELOW GRADE 90° CONDUIT INSTALLATION DETAIL

SCALE: NONE



FIELD MOUNTED TRANSMITTER

SCALE: NONE

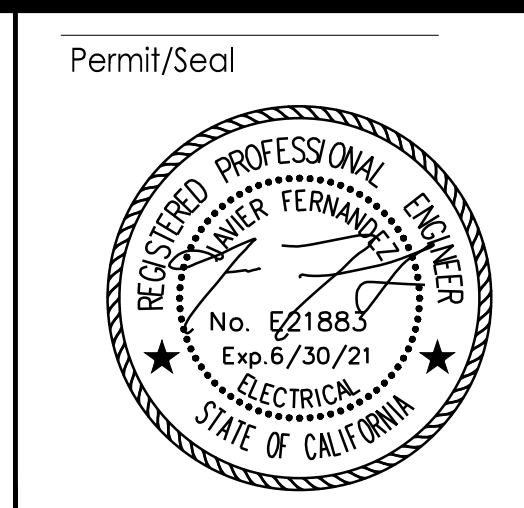


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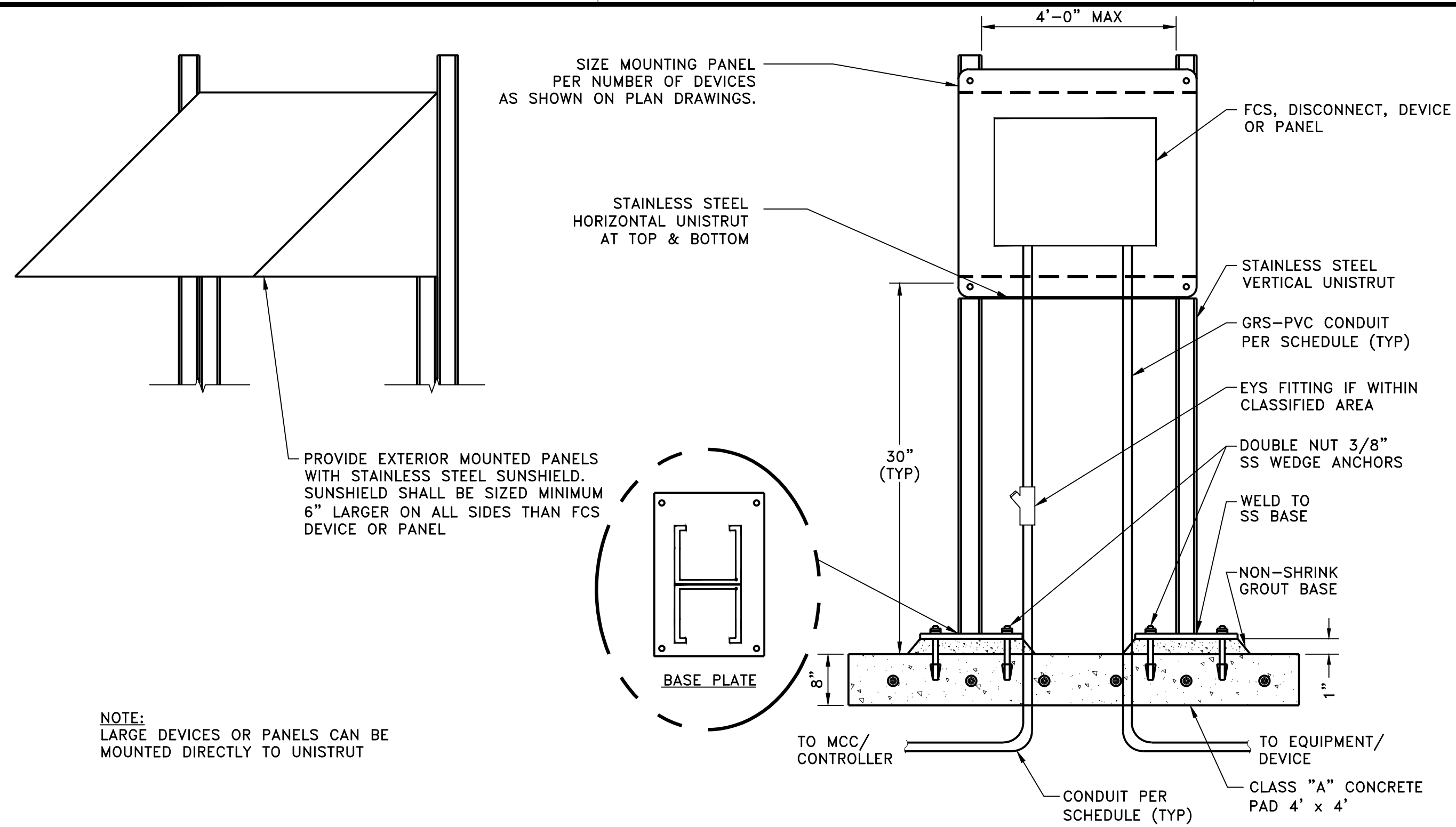
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Project No. 2002005593

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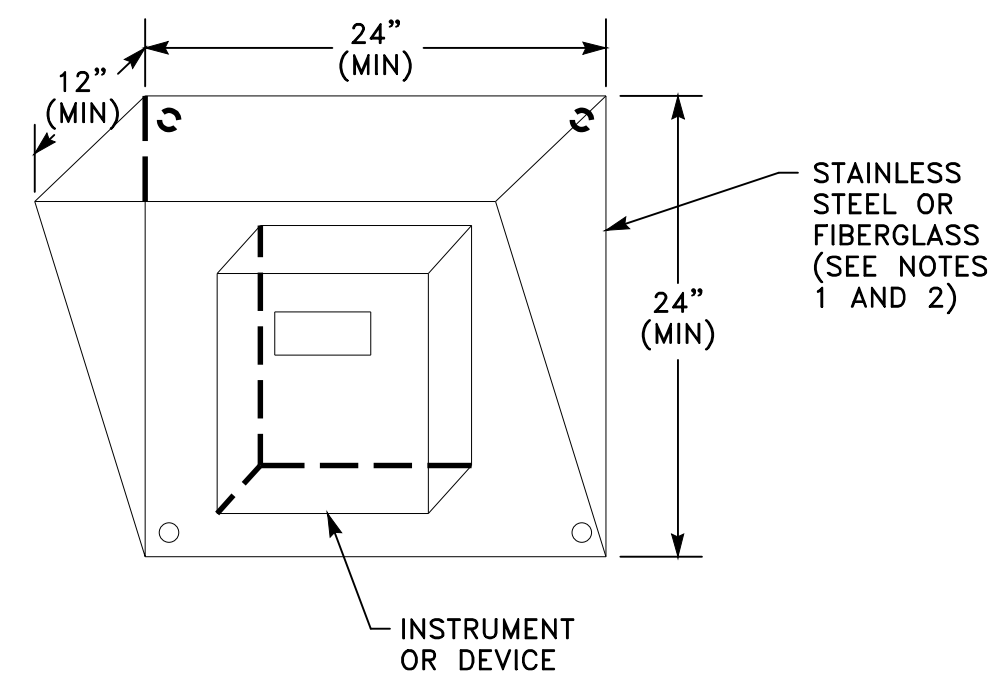
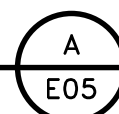
Revision Sheet 35 of 41

Drawing No. **E04**



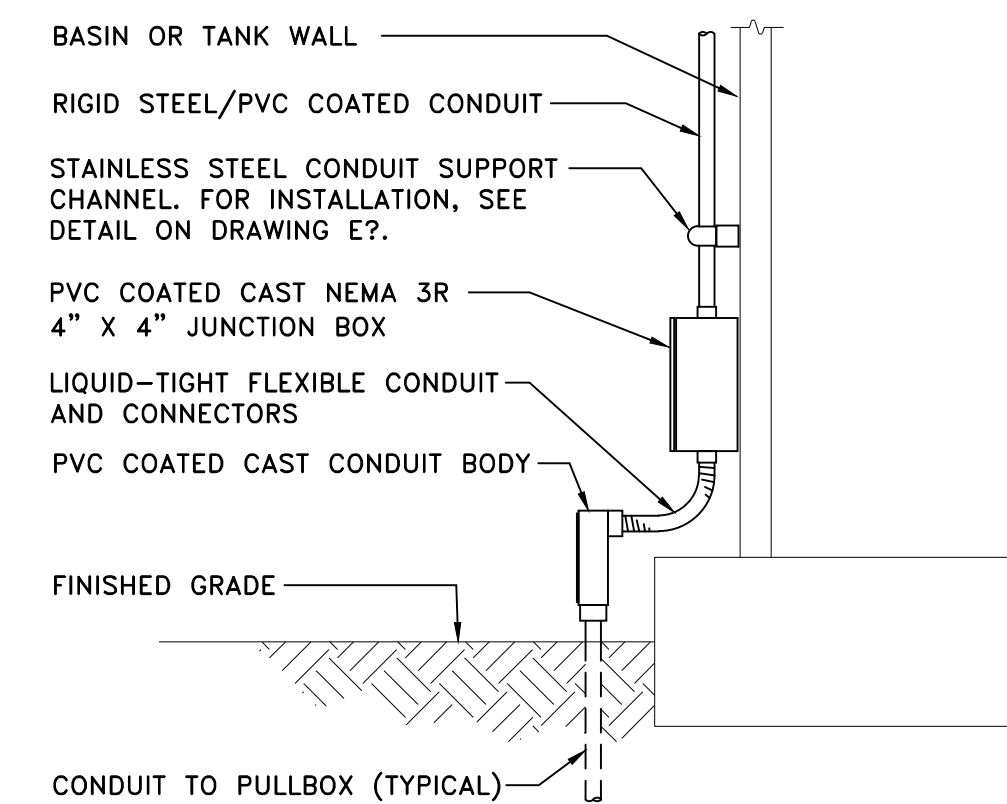
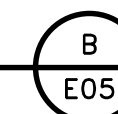
PANEL SUPPORT DETAIL

SCALE: NONE



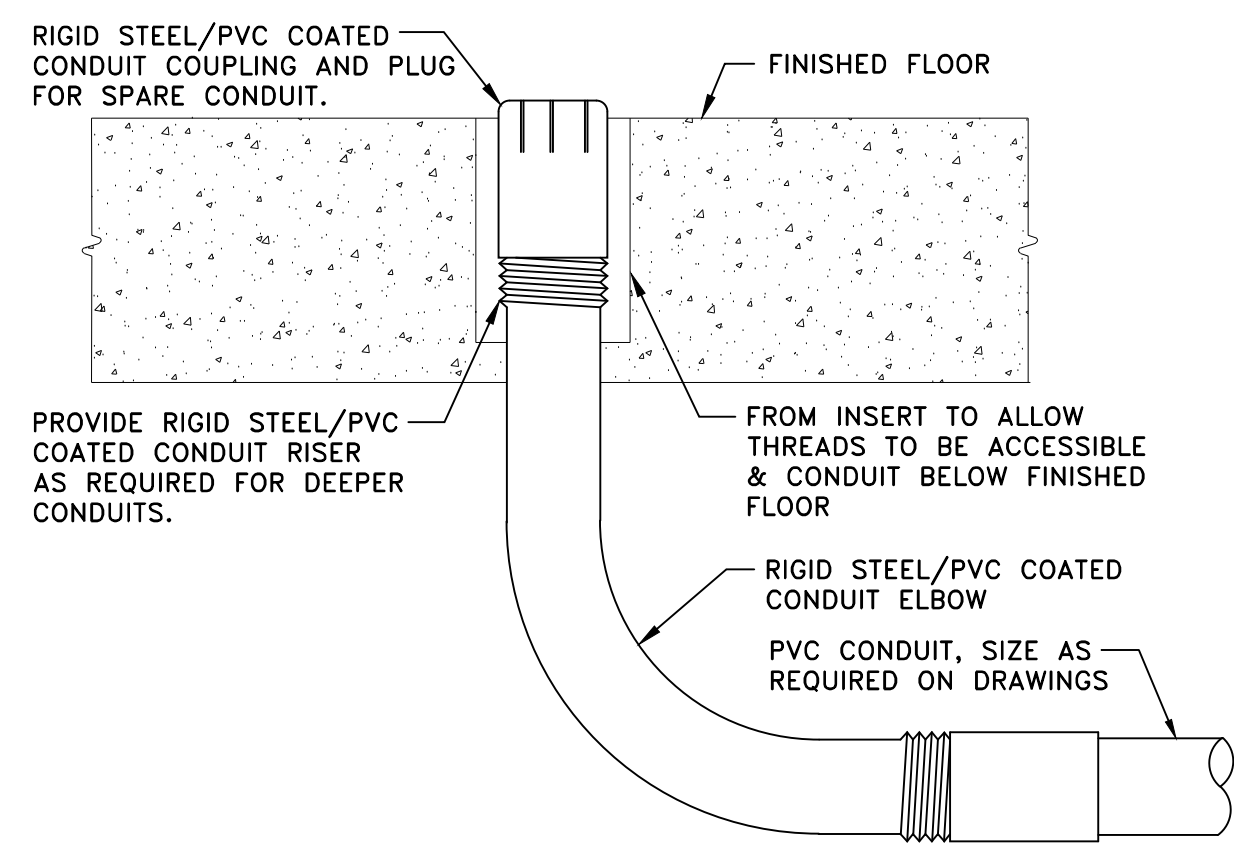
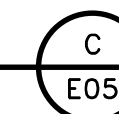
SUNSHIELD DETAIL

SCALE: NONE



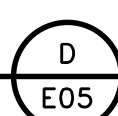
CONDUIT STUB-UP DETAIL

SCALE: NONE



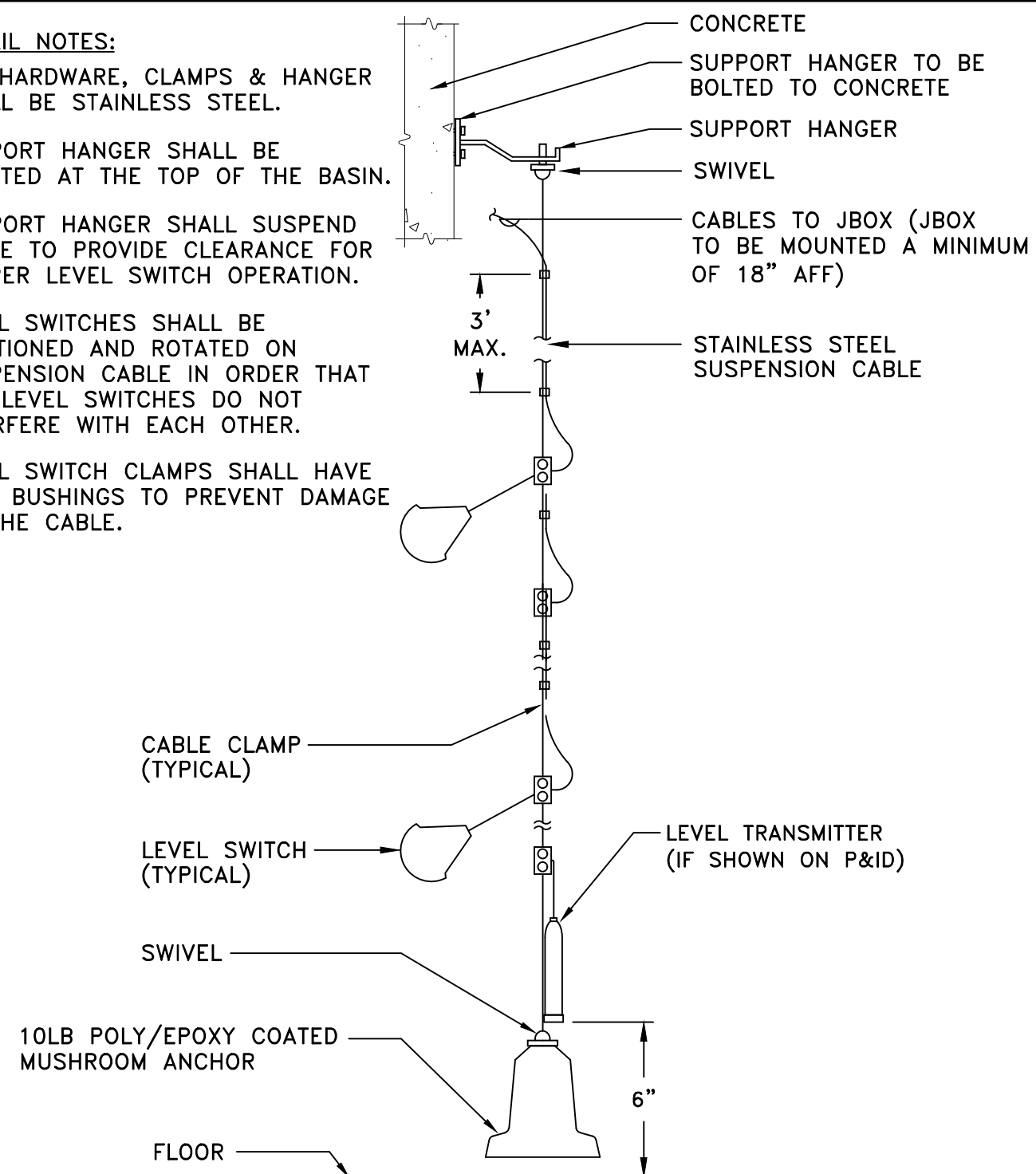
PVC CONDUIT STUB-UP DETAIL

SCALE: NONE



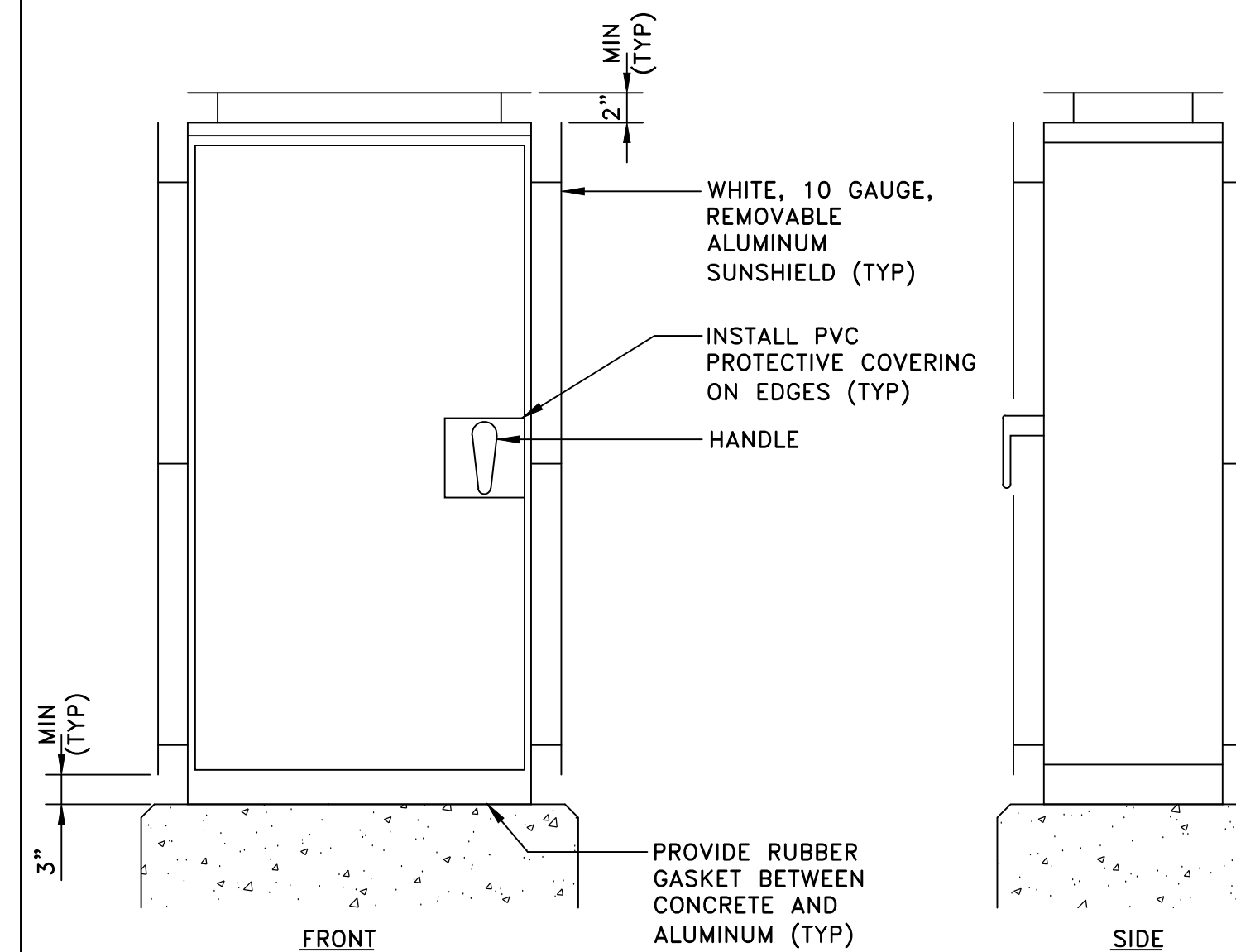
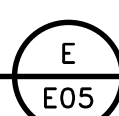
DETAIL NOTES:

1. ALL HARDWARE, CLAMPS & HANGER SHALL BE STAINLESS STEEL.
2. SUPPORT HANGER SHALL BE LOCATED AT THE TOP OF THE BASIN.
3. SUPPORT HANGER SHALL SUSPEND CABLE TO PROVIDE CLEARANCE FOR PROPER LEVEL SWITCH OPERATION.
4. LEVEL SWITCHES SHALL BE POSITIONED AND ROTATED ON SUSPENSION CABLE IN ORDER THAT THE LEVEL SWITCHES DO NOT INTERFERE WITH EACH OTHER.
5. LEVEL SWITCH CLAMPS SHALL HAVE FLEX BUSHINGS TO PREVENT DAMAGE TO THE CABLE.



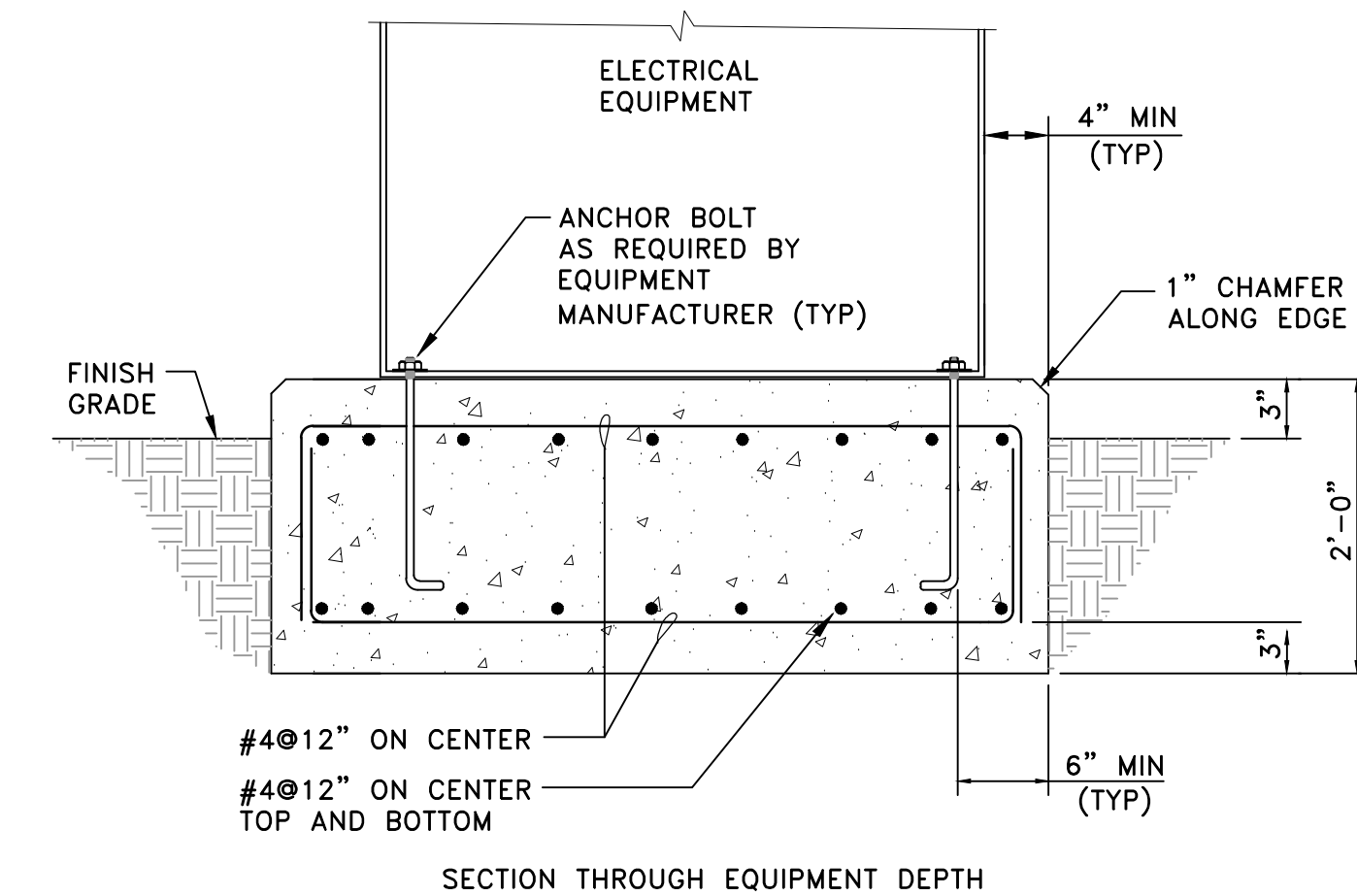
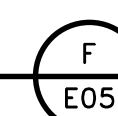
LEVEL SWITCH & TRANSMITTER INSTALLATION DETAIL

SCALE: NONE



SUNSHIELD INSTALLATION

SCALE: NONE



ELECTRICAL EQUIPMENT FOUNDATION

SCALE: NONE



NOTES:

1. EQUIPMENT BASE TOP SHALL BE LEVEL.
2. PRIOR TO EQUIPMENT BASE INSTALLATION, COMPACT SOIL UNDER AND 6" BEYOND THE BASE TO 95% RELATIVE COMPACTION.

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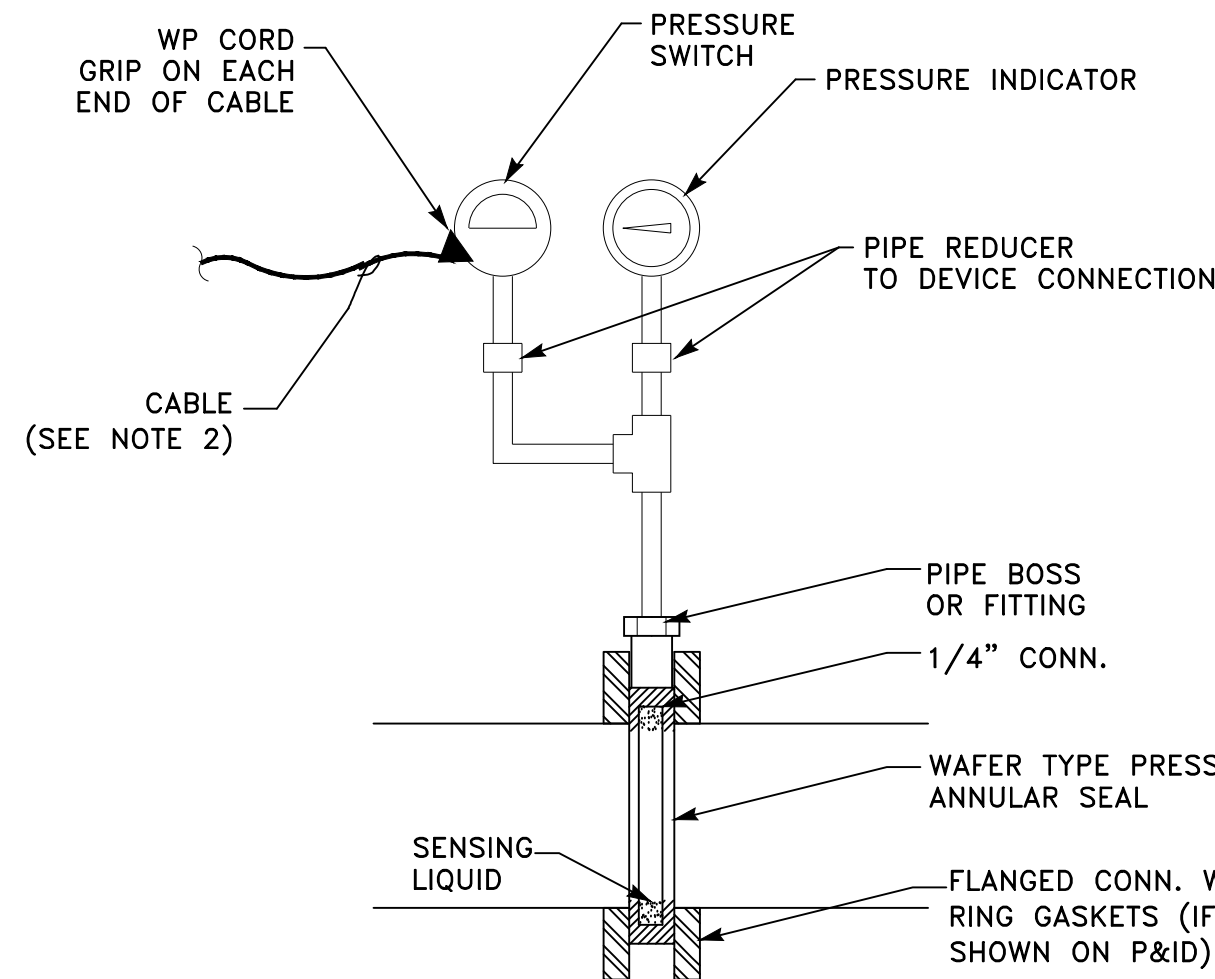
TYPICAL ELECTRICAL DETAILS 2

Project No. 2002005593

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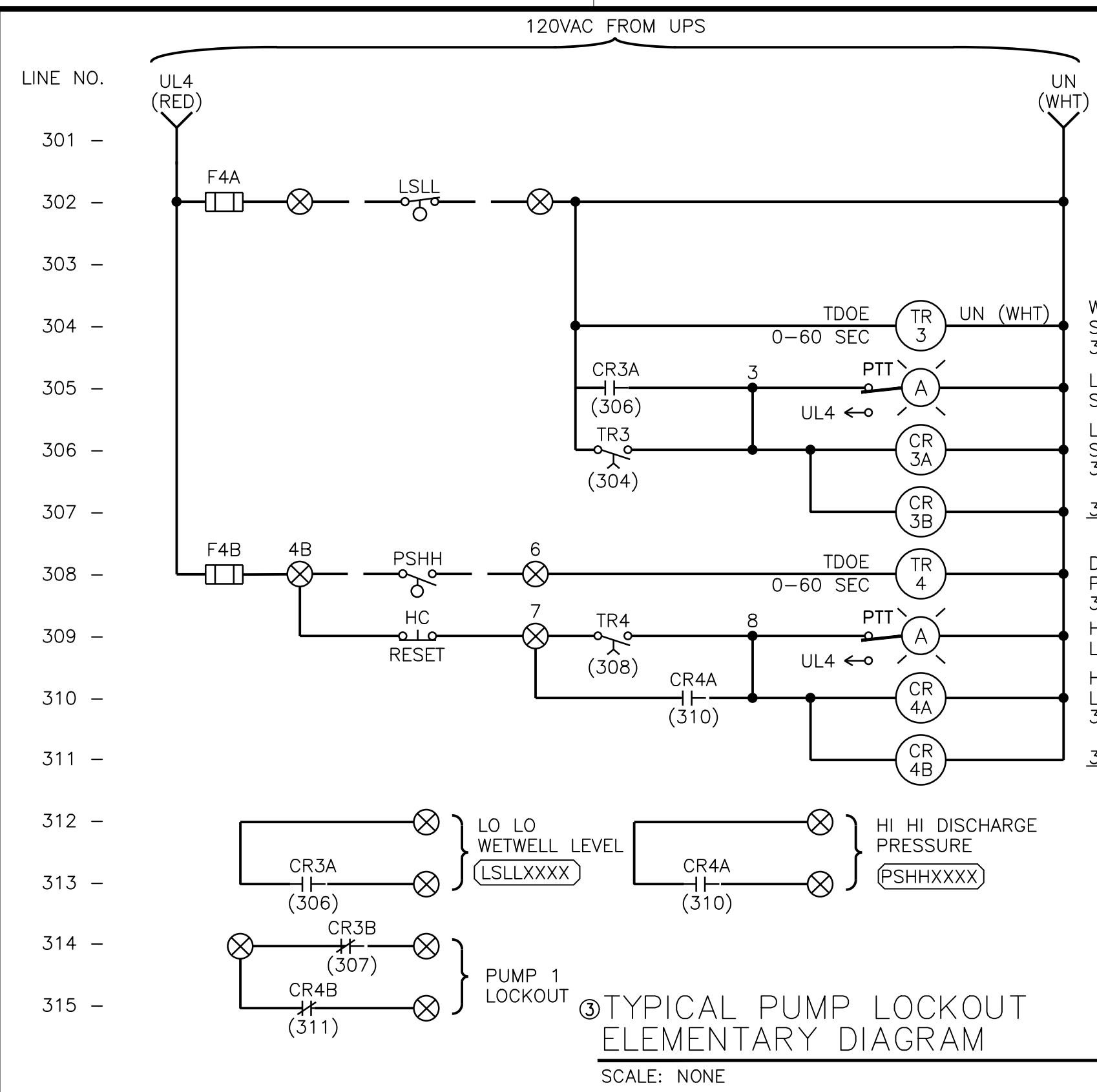
Revision Sheet 36 of 41

Drawing No. **E05**

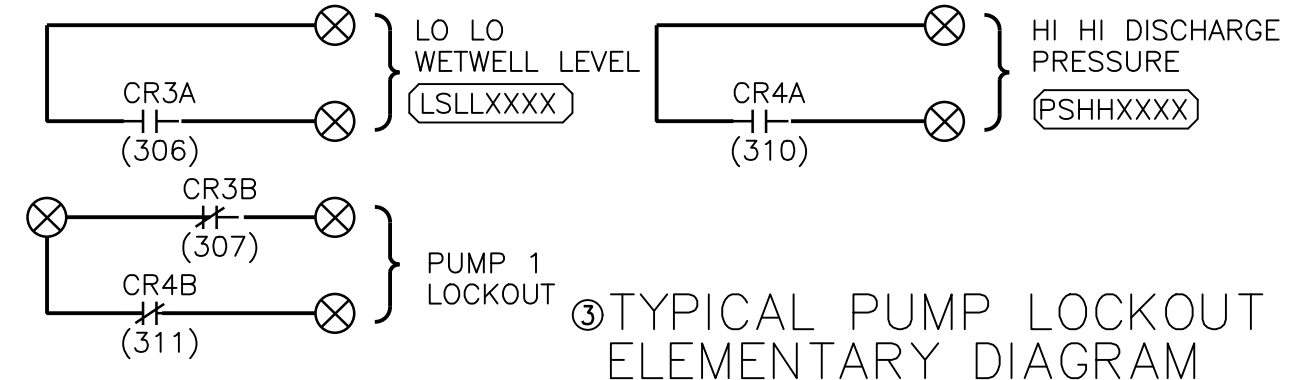


- NOTE:**
- 1/2" GALVANIZED PIPING & VALVES.
 - OUTDOOR TRAY RATED CABLE TO JUNCTION BOX.

PRESSURE SWITCH/TRANSMITTER DETAIL
SCALE: NONE



- NOTES:**
- WIRES & TERMINALS LABELED PER LOOP DIAGRAMS.
 - IF ISR IS REQUIRED PER P & ID, WIRE ALARM, WIRE TO THIS INPUT.
 - PUMP LOCKED TO BE PROVIDED IF SHOWN ON P & ID.
 - DIAGRAM SHOWN IS FOR TYPICAL PUMP CONTROLS. ADD HIGH LEVEL OR LO LO ALARMS AS SHOWN IN P & ID AND BASED ON THIS TEMPLATE.



TYPICAL PUMP LOCKOUT ELEMENTARY DIAGRAM
SCALE: NONE

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TYPICAL ELECTRICAL DETAILS 3

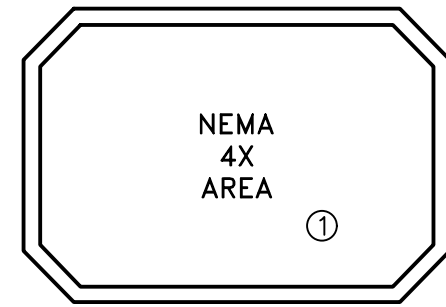
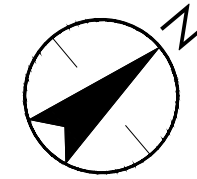
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Revision Sheet Drawing No.

37 of 41

E06



ENTIRE DRAWING

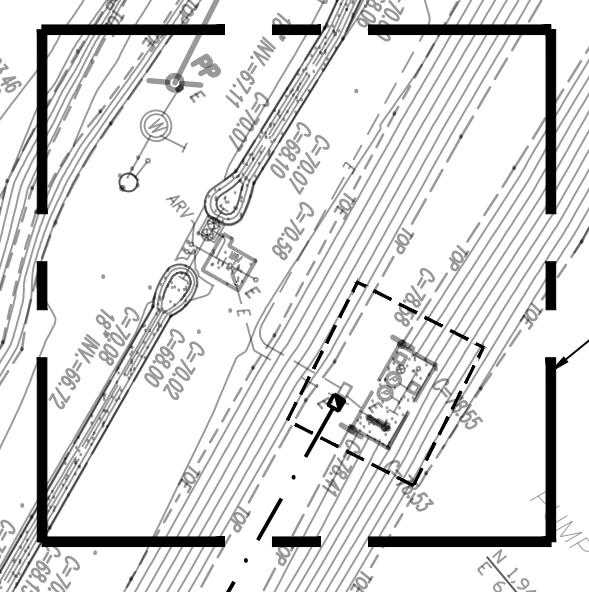
GENERAL NOTES:

1. FIELD VERIFY EXACT LOCATIONS OFF PULLBOXES, EXISTING UNDERGROUND UTILITIES AND DUCTBANKS PRIOR TO BEGINNING WORK.
2. REFERENCE MECHANICAL AND CIVIL DRAWINGS FOR NEW AND EXISTING UNDERGROUND PIPING.
3. BELOW GRADE CONDUITS SHALL BE INSTALLED A MIN. DEPTH OF 18" BELOW THE FINISHED FLOOR OR 18" BELOW ANY PIPE CROSSING THE CONDUIT PATH WHICHEVER IS DEEPER DOWN TO 5 FEET.
4. ALL UNDERGROUND FACILITIES SHALL BE PROTECTED FROM DAMAGE. IF ANY UNDERGROUND FACILITIES ARE DAMAGED IT SHALL BE REPORTED TO THE ELECTRICAL ENGINEER AND REPLACE OR REPAIR FACILITIES AT NO COST TO THE OWNER.

NOTES:

- ① AREA CLASSIFICATIONS SHALL APPLY UNLESS SPECIFICALLY NOTED ON THE PLANS & SPECIFICATIONS.
- ② INSTALL (N) PULLBOXES AT EVERY 350-FT, MAXIMUM DISTANCE.
- ③ PROVIDE H20 RATED STEEL LID ELECTRICAL PULL BOX MINIMUM 14"x20".

STANISLAUS COUNTY
MERCED COUNTY

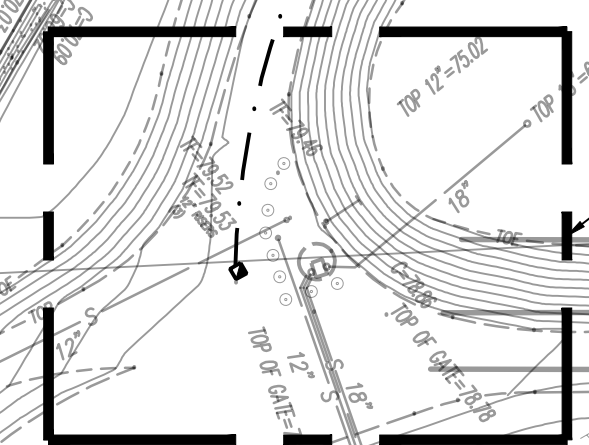


(E) IRRIGATION PUMP STATION (IPS-1)
REFERENCE DWG E11

(N) PULL BOXES (TYP OF 5)

CONDUIT TRENCH

3"C-3/250 KCMLL, 1#1G
2"CO-W/ PULL ROPE



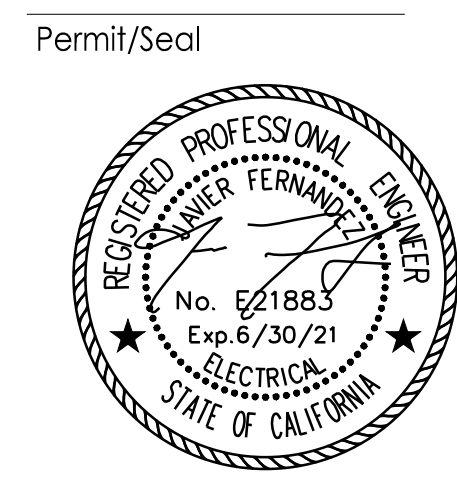
IRRIGATION PUMP STATION (IPS-2)
REFERENCE DWG E12

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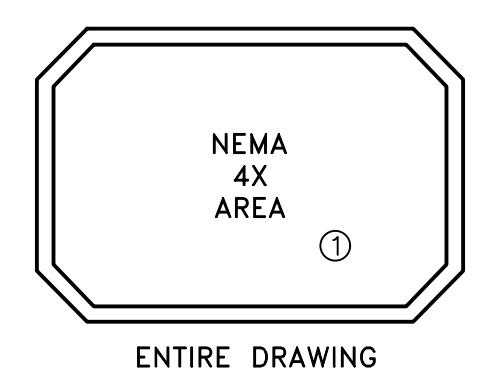
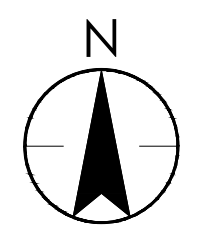
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**OVERALL ELECTRICAL
SITE PLAN**

Project No.
2002005593

Scale
1" = 75'

Revision Sheet
38 of 41

Drawing No.
E10



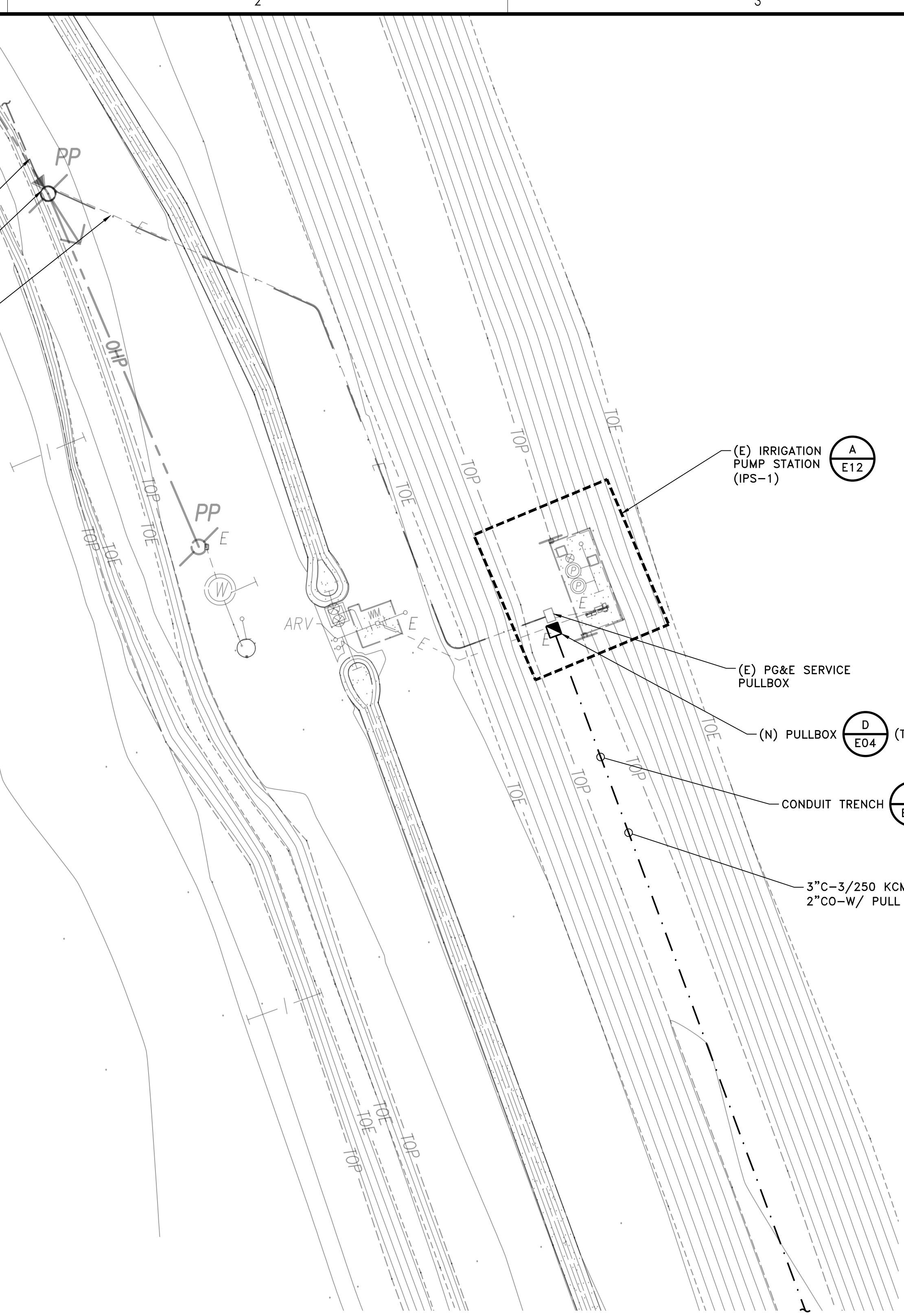
- (E) OVERHEAD SERVICE LINES
- (E) PG&E POWER POLE AND POLE MOUNTED SERVICE TRANSFORMER
- (E) 2" C - SERVICE FEEDER

GENERAL NOTES:

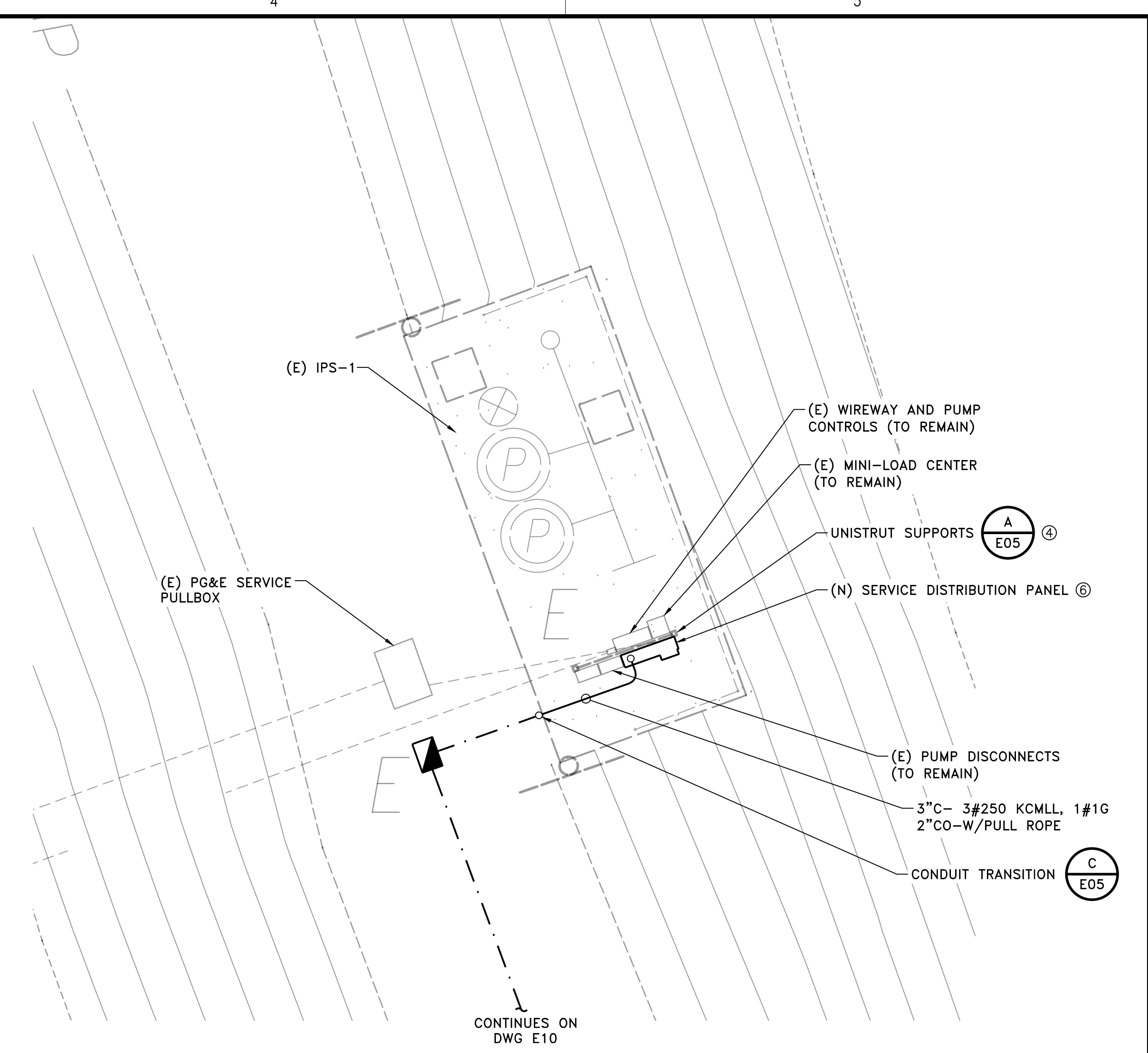
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NOTES:

- ① AREA CLASSIFICATIONS SHALL APPLY UNLESS SPECIFICALLY NOTED ON THE PLANS & SPECIFICATIONS.
- ② INSTALL (N) PULLBOXES AT EVERY 350-FT MAXIMUM DISTANCE.
- ③ (R&W) (E) SERVICE METER AND MAIN BREAKER. PROVIDE (N) SERVICE DISTRIBUTION PANEL PER ELECTRICAL SINGLE LINE DWG E02.
- ④ PROVIDE (N) MOUNTING HARDWARE AS REQUIRE TO SECURE CONDUIT STUB-UPS, AND REMAINING WIREWAY AND IPS-1 PUMP MOTOR CONTROLS.
- ⑤ PROVIDE H20 RATED STEEL LID ELECTRICAL PULL BOX MINIMUM 14"X20".
- ⑥ CONTRACTOR SHALL BE RESPONSIBLE FOR PG&E SERVICE APPLICATION AND COORDINATION REQUIRED FOR SERVICE UPGRADE. REFERENCE SPEC SECTION 16010 FOR ADDITIONAL REQUIREMENTS.



ELECTRICAL PLAN
SCALE: 1" = 20'



ELECTRICAL PLAN
SCALE: 1" = 5'-0"

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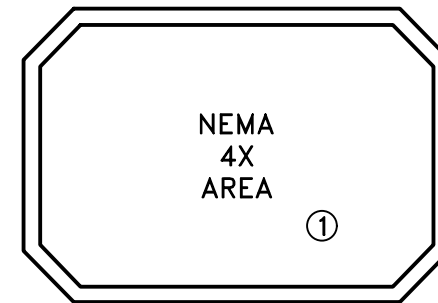
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Scale AS SHOWN

Revision Sheet Drawing No.

39 of 41

E11



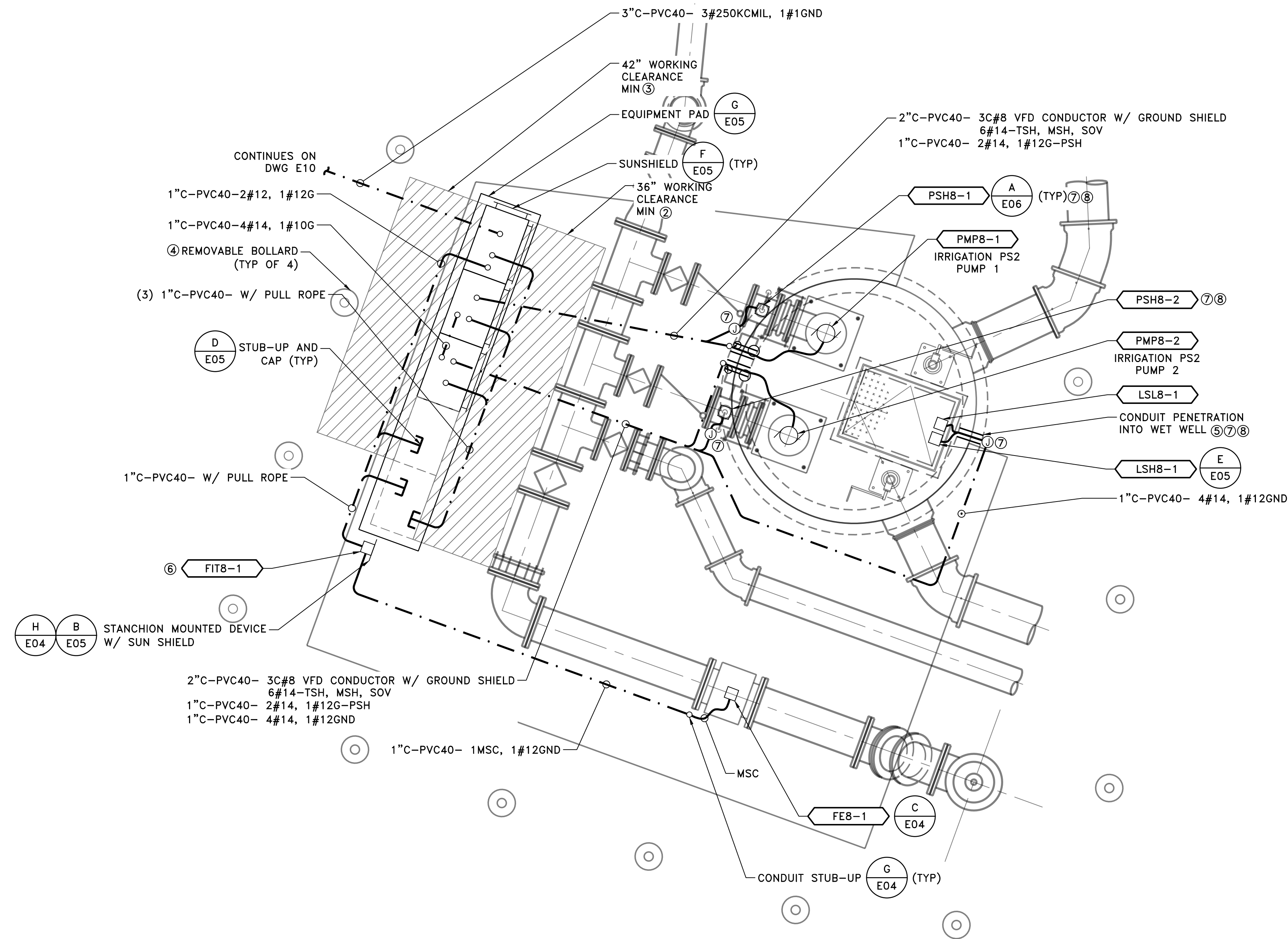
ENTIRE DRAWING

GENERAL NOTES:

1. FIELD VERIFY EXACT LOCATIONS OFF PULLBOXES, EXISTING UNDERGROUND UTILITIES AND DUCTBANKS PRIOR TO BEGINNING WORK.
2. REFERENCE MECHANICAL AND CIVIL DRAWINGS FOR NEW AND EXISTING UNDERGROUND PIPING.
3. BELOW GRADE CONDUITS SHALL BE INSTALLED A MIN. DEPTH OF 18" BELOW THE FINISHED FLOOR OR 18" BELOW ANY PIPE CROSSING THE CONDUIT PATH WHICHEVER IS DEEPER DOWN TO 5 FEET.
4. ALL UNDERGROUND FACILITIES SHALL BE PROTECTED FROM DAMAGE. IF ANY UNDERGROUND FACILITIES ARE DAMAGED IT SHALL BE REPORTED TO THE ELECTRICAL ENGINEER AND REPLACE OR REPAIR FACILITIES AT NO COST TO THE OWNER.

NOTES:

- ① AREA CLASSIFICATIONS SHALL APPLY UNLESS SPECIFICALLY NOTED ON THE PLANS & SPECIFICATIONS.
- ② PROVIDE 36" WORKING CLEARANCE BETWEEN REAR PANEL AND EDGE OF PIPE.
- ③ PROVIDE 42" WORKING CLEARANCE BETWEEN FRONT PANEL AND EDGE OF BOLLARD.
- ④ PROVIDE REMOVAL BOLLARDS IN FRONT OF ELECTRICAL EQUIPMENT TO ALLOW FOR OPERATIONAL MAINTENANCE.
- ⑤ PROVIDE WATER-TIGHT SEAL FOR ALL CONDUIT PENETRATION INTO WETWELL.
- ⑥ CONTRACTOR SHALL COORDINATE FIT8-1 LOCATION WITH OPERATIONS PRIOR TO INSTALLATION.
- ⑦ PROVIDE UNISTRUT SUPPORTS FOR JUNCTION BOX, ELECTRICAL EQUIPMENT AND DEVICES AS REQUIRED.
- ⑧ CONTRACTOR SHALL COORDINATE WITH OPERATIONS FOR LEVEL FLOATS AND PRESSURE SWITCH SETPOINT AND INSTALLATION REQUIREMENTS.



ELECTRICAL PLAN

SCALE: 3/8" = 1'-0"

v:\2002\200205593\dwg\electrical\05593-e12 2023.03.21 10:42:34 AM

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Client/Project

CITY OF NEWMAN

WWTRF MCPIKE 1
RECLAMATION IMPROVEMENTS

NEWMAN, CALIFORNIA

File Name: 05593-E12

2019.08.02

Dwn. Dsgn. Chkd. YYYY.MM.DD

Title

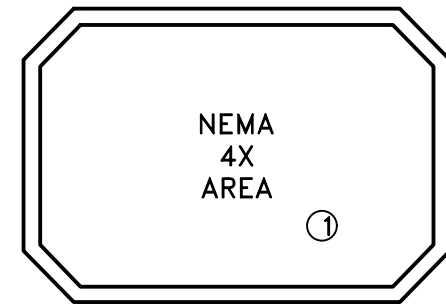
**IRRIGATION PUMP STATION 2
ELECTRICAL PLAN**

Project No. 2002005593

Scale 3/8"=1'-0"

Revision Sheet 40 of 41

Drawing No. **E12**



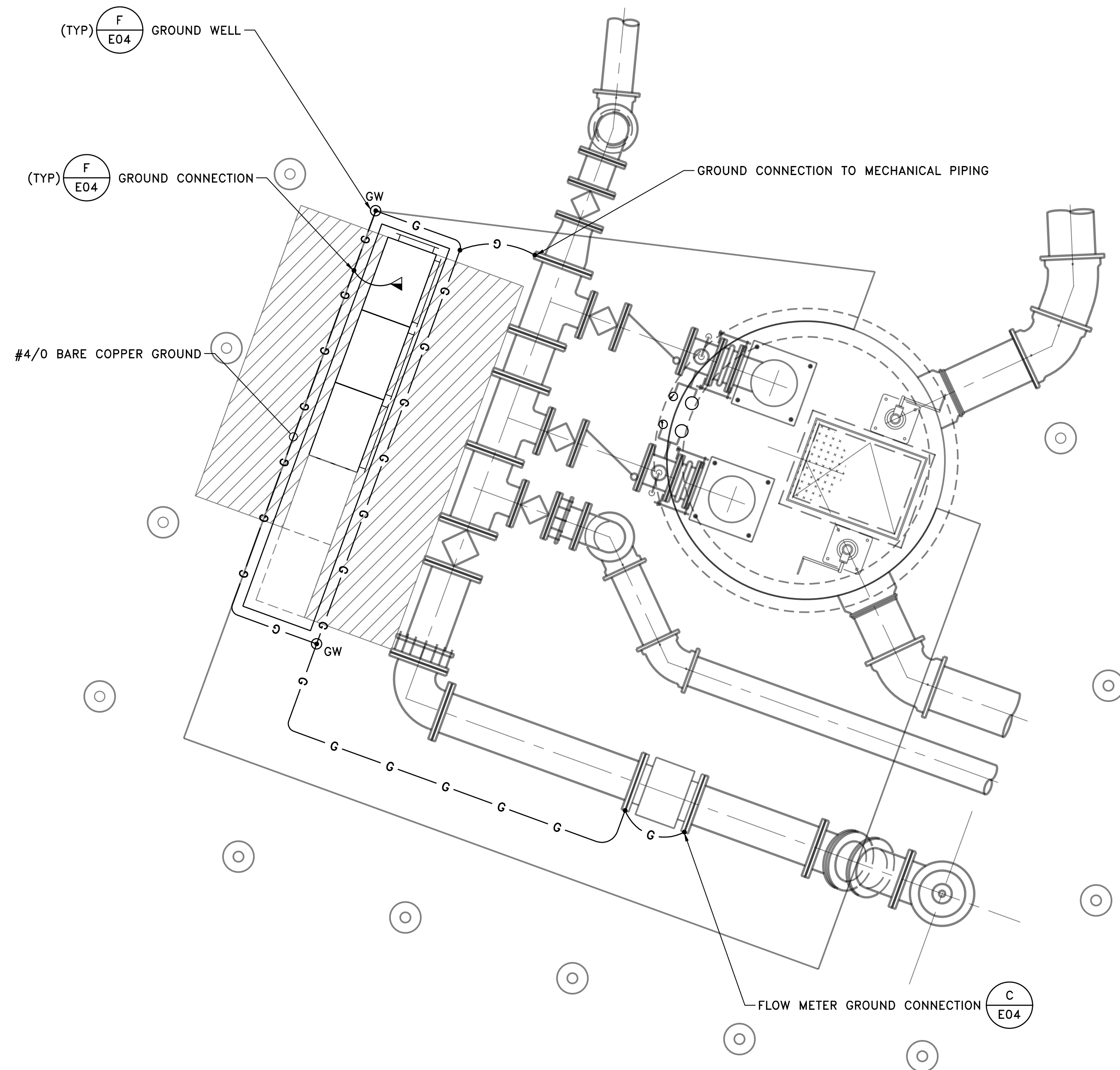
ENTIRE DRAWING

GENERAL NOTES:

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3. BELOW GRADE CONDUITS SHALL BE INSTALLED A MIN. DEPTH OF 18" BELOW THE FINISHED FLOOR OR 18" BELOW ANY PIPE CROSSING THE CONDUIT PATH WHICHEVER IS DEEPER DOWN TO 5 FEET.
4. ALL UNDERGROUND FACILITIES SHALL BE PROTECTED FROM DAMAGE. IF ANY UNDERGROUND FACILITIES ARE DAMAGED IT SHALL BE REPORTED TO THE ELECTRICAL ENGINEER AND REPLACE OR REPAIR FACILITIES AT NO COST TO THE OWNER.

NOTES:

- ① AREA CLASSIFICATIONS SHALL APPLY UNLESS SPECIFICALLY NOTED ON THE PLANS & SPECIFICATIONS.



GROUNDING PLAN

SCALE: 3/8" = 1'-0"

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CITY OF NEWMAN

WWTRF MCPIKE 1
RECLAMATION IMPROVEMENTS

NEWMAN, CALIFORNIA

File Name: 05593-E12

2019.08.02

Dwn. Dsgn. Chkd. YYYY.MM.DD

Title

**IRIGATION PUMP STATION 2
GROUNDING PLAN**

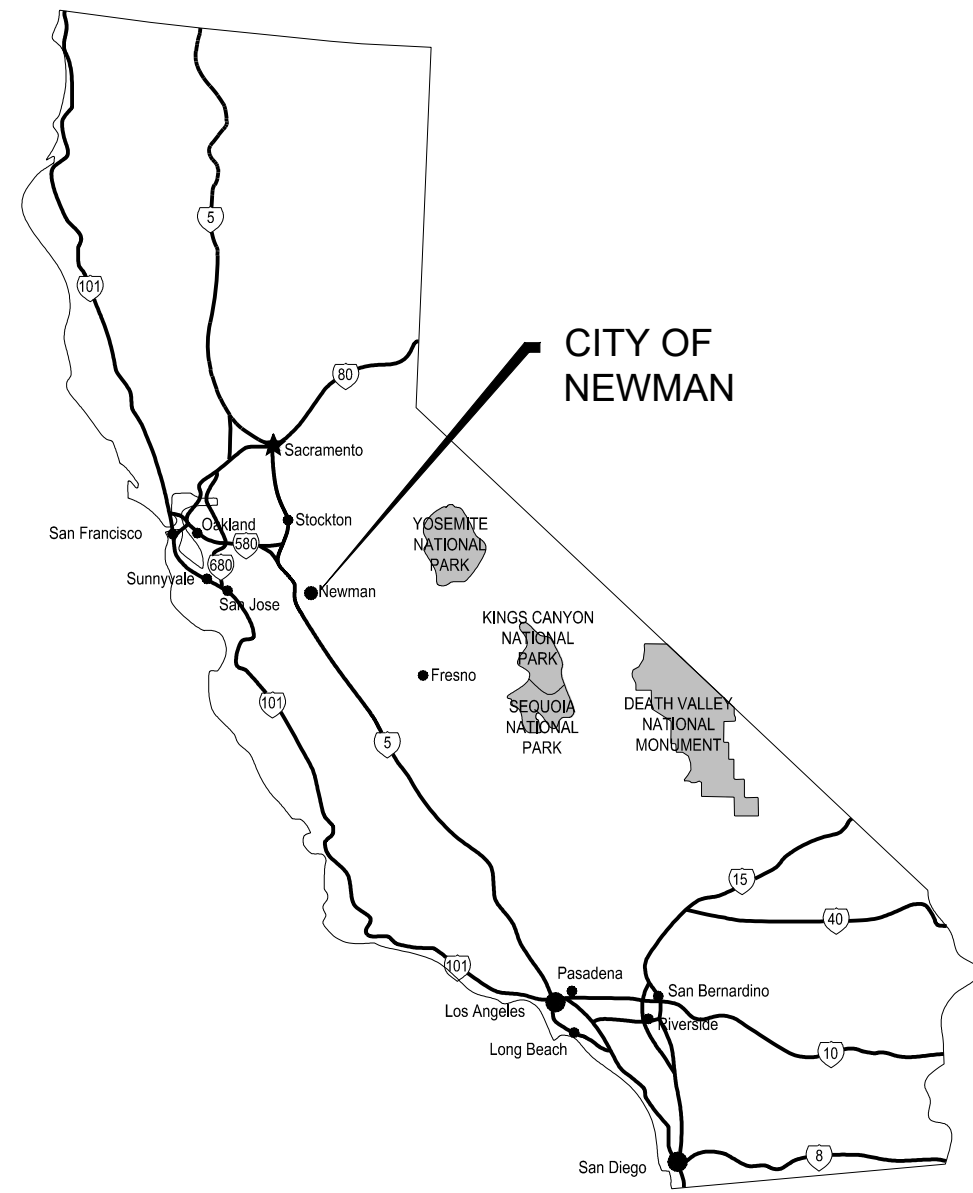
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Scale 3/8"=1'-0"

Revision Sheet Drawing No.

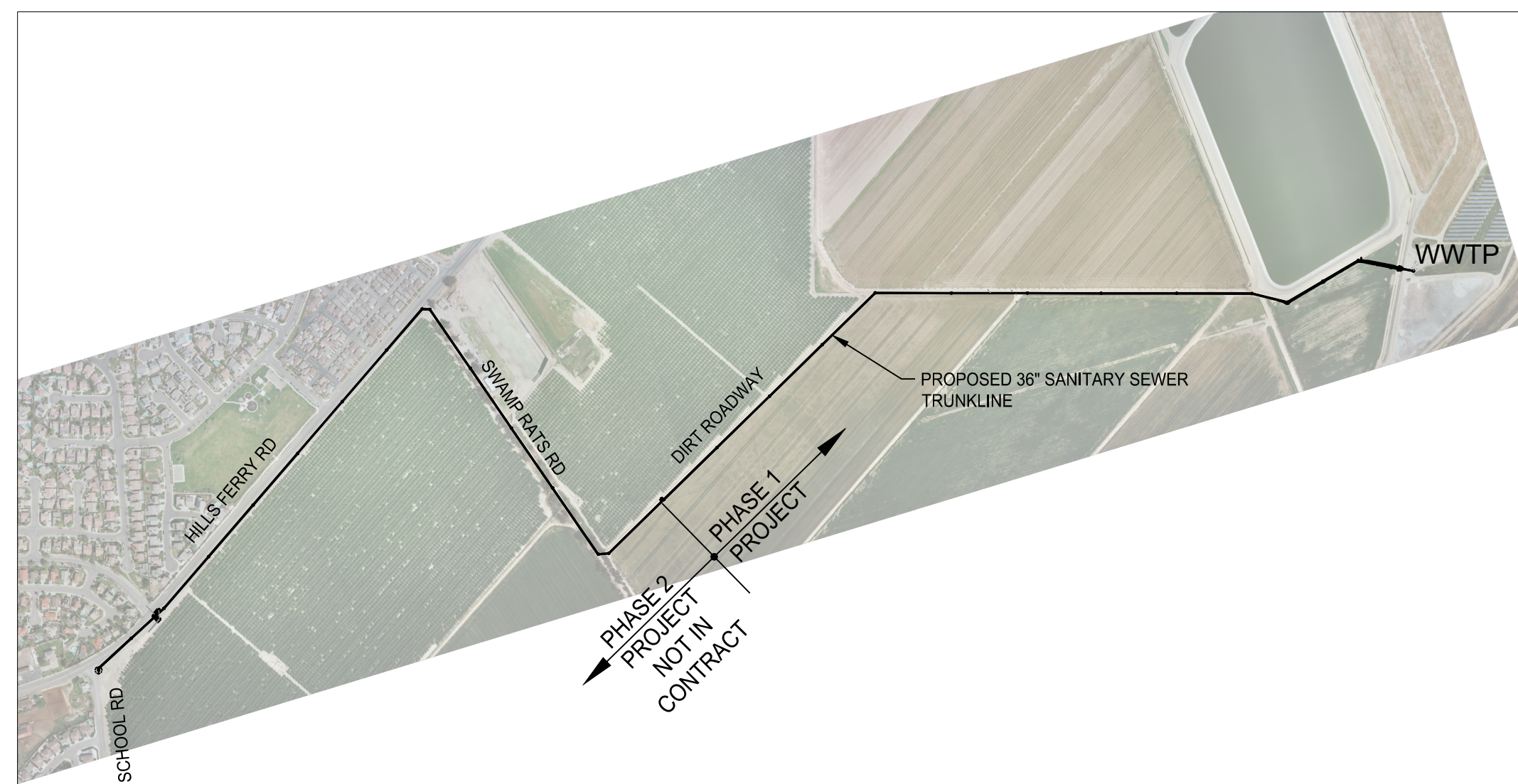
41 of 41 **E13**

CONTRACT DRAWINGS FOR CITY OF NEWMAN NEWMAN INFLUENT TRUNK SEWER OCTOBER, 2022



CALIFORNIA MAP
SCALE: NTS

DRAWING INDEX		
SHT NO.	DWG NO.	DESCRIPTION
1	G-01	PROJECT TITLE, VICINITY AND LOCATION MAP, AND INDEX OF DRAWINGS
2	G-02	ABBREVIATIONS, LEGENDS, PIPING SYSTEM, AND SYMBOLS
3	GC-01	TYPICAL CIVIL DETAILS 1
4	GC-02	CITY OF NEWMAN STANDARD TYPICAL
5	GC-03	GATED MANHOLE - PLAN, SECTIONS AND DETAILS (NOT IN CONTRACT)
6	C-01	GENERAL SITE PLAN / KEY MAP AND SURVEY CONTROL
7	C-10	36" SS TRUNKLINE - PLAN AND PROFILE STA -0+25 TO STA 5+00 (NOT IN CONTRACT)
8	C-11	36" SS TRUNKLINE - PLAN AND PROFILE STA 5+00 TO STA 10+00 (NOT IN CONTRACT)
9	C-12	36" SS TRUNKLINE - PLAN AND PROFILE STA 10+00 TO STA 15+00 (NOT IN CONTRACT)
10	C-13	36" SS TRUNKLINE - PLAN AND PROFILE STA 15+00 TO STA 20+00 (NOT IN CONTRACT)
11	C-14	36" SS TRUNKLINE - PLAN AND PROFILE STA 20+00 TO STA 25+00 (NOT IN CONTRACT)
12	C-15	36" SS TRUNKLINE - PLAN AND PROFILE STA 25+00 TO STA 30+00 (NOT IN CONTRACT)
13	C-16	36" SS TRUNKLINE - PLAN AND PROFILE STA 30+00 TO STA 35+00 (NOT IN CONTRACT)
14	C-17	36" SS TRUNKLINE - PLAN AND PROFILE STA 35+00 TO STA 40+00 (NOT IN CONTRACT)
15	C-18	36" SS TRUNKLINE - PLAN AND PROFILE STA 40+00 TO STA 45+00 (NOT IN CONTRACT)
16	C-19	36" SS TRUNKLINE - PLAN AND PROFILE STA 45+00 TO STA 50+00 (NOT IN CONTRACT)
17	C-20	36" SS TRUNKLINE - PLAN AND PROFILE STA 50+00 TO STA 55+00
18	C-21	36" SS TRUNKLINE - PLAN AND PROFILE STA 55+00 TO STA 60+00
19	C-22	36" SS TRUNKLINE - PLAN AND PROFILE STA 60+00 TO STA 65+00
20	C-23	36" SS TRUNKLINE - PLAN AND PROFILE STA 65+00 TO STA 70+00
21	C-24	36" SS TRUNKLINE - PLAN AND PROFILE STA 70+00 TO STA 75+00
22	C-25	36" SS TRUNKLINE/GRADING - PLAN AND PROFILE STA 75+00 TO STA 80+00
23	C-26	36" SS TRUNKLINE/GRADING - PLAN AND PROFILE STA 80+00 TO STA 85+00
24	C-27	36" SS TRUNKLINE/GRADING - PLAN AND PROFILE STA 85+00 TO STA 90+00
25	C-28	36" SS TRUNKLINE/GRADING - PLAN AND PROFILE STA 90+00 TO STA 95+00
26	C-29	36" SS TRUNKLINE/GRADING - PLAN AND PROFILE STA 95+00 TO STA 98+50
27	C-30	36" SS TRUNKLINE/GRADING - PLAN AND PROFILE STA 98+50 TO STA 102+00
28	C-31	SECTIONS AND DETAILS
29	C-32	36" SS TRUNKLINE - PLAN AND PROFILE - DETAILS
30	C-33	36" SS TRUNKLINE - PLAN AND PROFILE - DETAILS



VICINITY/LOCATION MAP
SCALE: NTS

CITY APPROVAL _____

GABE ANOROW PE. *Gabe Anorow*
Project Manager

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Client/Project
CITY OF NEWMAN

NEWMAN INFLUENT TRUNK SEWER

NEWMAN, CALIFORNIA

File Name: X31401-G-01

RG	FR	FR	2022.10.03
Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

Title

PROJECT TITLE
VICINITY AND LOCATION MAP,
DRAWING INDEX, AND DESIGN CRITERIA

Project No. 184031401 Scale NTS

Revision Sheet Drawing No. 1 of 30 **G-01**

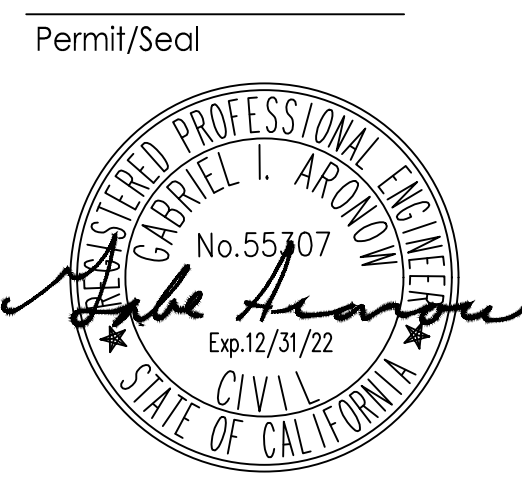
EXISTING SURVEY LEGENDS		GENERAL CIVIL SYMBOLS		CONTROL SYMBOLS		ABBREVIATIONS		ABBREVIATIONS	
	<p>EX. GROUND ELEVATION EX. TOP OF CURB ELEVATION EX. FLOWLINE ELEVATION EX. EDGE OF PAVEMENT ELEVATION EX. A.C. PAVEMENT ELEVATION EX. RIM ELEVATION EX. GUTTER LIP ELEVATION EX. CONCRETE ELEVATION EX. CURB AND GUTTER EX. EDGE OF PAVEMENT EX. SANITARY SEWER LINE EX. MANHOLE EX. CLEAN-OUT EX. STORM DRAIN LINE EX. CATCH BASIN EX. CATCH BASIN DROP INLET EX. WATER LINE EX. WATER METER EX. FIRE HYDRANT EX. GATE VALVE EX. HOSE BIB EX. POWER POLE EX. TELEPHONE POLE EX. JOINT POLE EX. POLE WITH GUY ANCHOR EX. SIGN EX. LIGHTED BOLLARD EX. GAS LINE EX. ELECTRICAL CONDUIT EX. TELEPHONE CONDUIT EX. OVERHEAD POWER LINE EX. RIGHT OF WAY EX. PROPERTY LINE EX. TELEPHONE BOOTH EX. TELEPHONE BOX EX. ELECTRICAL BOX EX. LANDSCAPE IRRIGATION BOX EX. ELECTROLIER EX. TRAFFIC SIGNAL EX. TRAFFIC DETECTOR LOOP BOX EX. FENCE EX. TREE, SPREAD DRAWN TO SCALE EX. AREA OF CONCRETE EX. AREA OF ASPHALT PAVEMENT</p>	<p>NEW EXISTING FUTURE EXISTING TO BE REMOVED OR DEMOLISHED CENTERLINE EARTH (IN SECTION) COMPACTED EARTH (IN SECTION) SLOPE ON PAVED SURFACE BERM SLOPE (HORZ TO VERT)</p>	<p>BENCH MARK MONUMENT HORIZONTAL CONTROL POINT VERTICAL CONTROL POINT HORZ AND VERT CONTROL POINT FINISHED ELEVATION</p>	<p>ASPHALT CONCRETE / PAVEMENT APPROXIMATE BENCH MARK CATCH BASIN CONSTRUCTION JOINT CENTER / CENTERLINE CLEARANCE CONTROLLED LOW STRENGTH MATERIAL CLEAN-OUT CONCRETE DRAIN DRAIN INLET DIAMETER EAST/ EASTING/ ELECTRICAL EACH FACE ELEVATION ELEVATION EDGE OF PAVEMENT EACH WAY EXISTING EXISTING FINISH GRADE FIRE HYDRANT FLOW LINE GAS GRAND DEED HORIZONTAL HOOK ONE END INSIDE DIAMETER INVERT IRRIGATION MAXIMUM MANHOLE MINIMUM NORTH / NORTHING OUTSIDE DIAMETER PLATE PAVEMENT REINFORCEMENT, REINFORCING</p>	<p>SLOPE, SOUTH STORM DRAIN SIMILAR SANITARY SEWER STAINLESS STEEL STORM TELEPHONE TYPICAL TOP AND BOTTOM WATER, WEST WATER STOP VERTICAL</p>				
		DRAINAGE SYMBOLS		CALLOUT SYMBOLS					
		<p>RIPRAP HAY BALE SILT FENCE</p>		<p>SECTION IDENTIFICATION LETTER SHEET OR DRAWING NUMBER WHERE SECTION APPEARS SECTION IDENTIFICATION LETTER SHEET OR DRAWING NUMBER WHERE SECTION IS TAKEN DETAIL IDENTIFICATION NUMBER SHEET OR DRAWING NUMBER WHERE DETAIL IS TAKEN</p>					
		CORROSION CONTROL SYMBOLS							
		<p>ELECTROLYSIS TEST STATION CATHODIC TEST STATION CORROSION TEST STATION CASING TEST STATION INSULATING JOINT TEST STATION FOREIGN PIPELINE TEST STATION CURRENT SPAN TEST STATION</p>							

PROPOSED PIPING LEGEND/SYMBOL		GEOTECHNICAL SYMBOLS	
<p>SEWER MANHOLE SEWER / SANITARY PIPELINE SEWER / SANITARY PIPELINE</p>	<p>SOIL BORING LOCATION TEST PIT LOCATION OBSERVATION HOLE MONITORING WELL</p>		

<p>Issued _____ By _____ Appd _____ YYYY.MM.DD</p>	
<p>Revision _____ By _____ Appd _____ YYYY.MM.DD</p>	

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Client/Project
CITY OF NEWMAN
NEWMAN INFLUENT TRUNK SEWER
NEWMAN, CALIFORNIA

File Name: X31401-G-02

RG	FR	FR	2022.10.03
Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

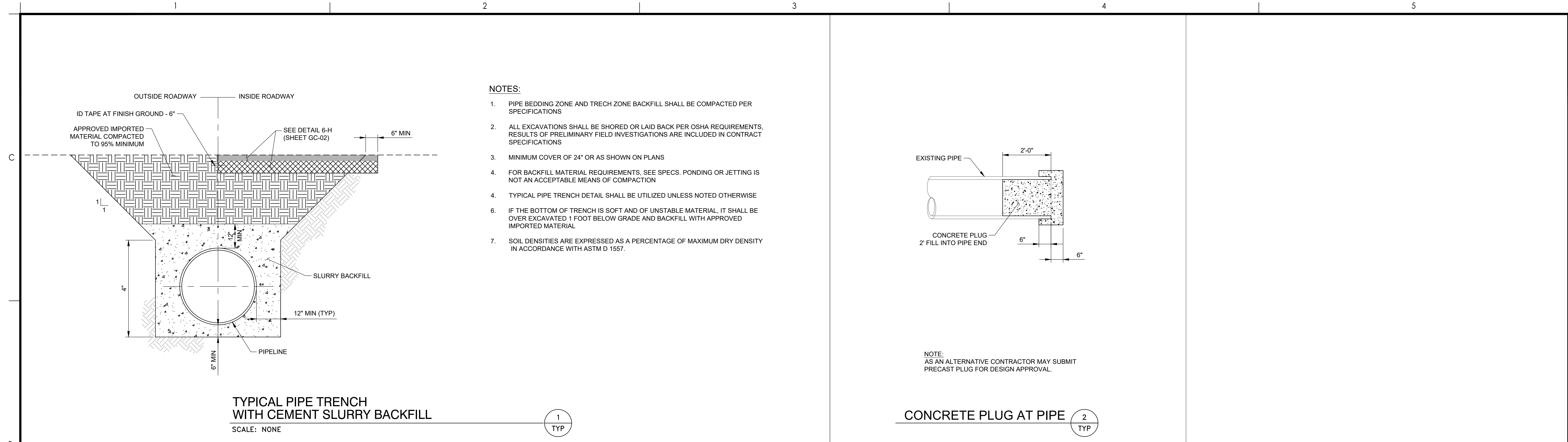
Title
ABBREVIATIONS, LEGENDS, PIPING SYSTEM, AND SYMBOLS

Project No. 184031401 Scale _____
Revision Sheet Drawing No. _____
2 of 30 **G-02**

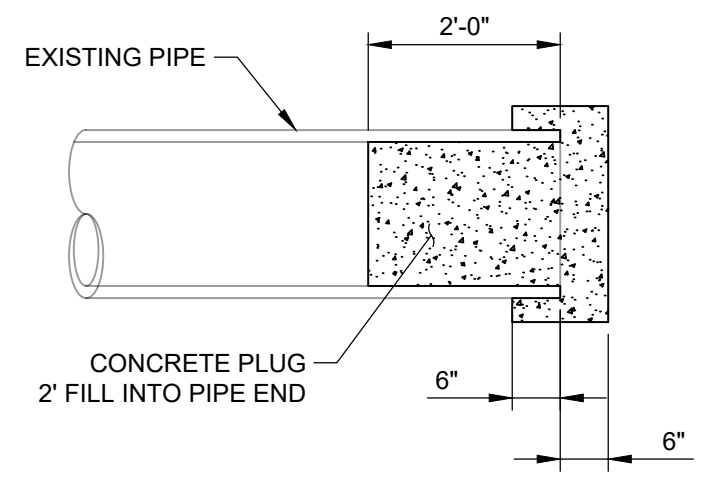
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- NOTES:**
1. PIPE BEDDING ZONE AND TRENCH ZONE BACKFILL SHALL BE COMPACTED PER SPECIFICATIONS
 2. ALL EXCAVATIONS SHALL BE SHORED OR LAID BACK PER OSHA REQUIREMENTS. RESULTS OF PRELIMINARY FIELD INVESTIGATIONS ARE INCLUDED IN CONTRACT SPECIFICATIONS
 3. MINIMUM COVER OF 24" OR AS SHOWN ON PLANS
 4. FOR BACKFILL MATERIAL REQUIREMENTS, SEE SPECS. PONDING OR JETTING IS NOT AN ACCEPTABLE MEANS OF COMPACTION
 4. TYPICAL PIPE TRENCH DETAIL SHALL BE UTILIZED UNLESS NOTED OTHERWISE
 6. IF THE BOTTOM OF TRENCH IS SOFT AND OF UNSTABLE MATERIAL, IT SHALL BE OVER EXCAVATED 1 FOOT BELOW GRADE AND BACKFILL WITH APPROVED IMPORTED MATERIAL
 7. SOIL DENSITIES ARE EXPRESSED AS A PERCENTAGE OF MAXIMUM DRY DENSITY IN ACCORDANCE WITH ASTM D 1557.

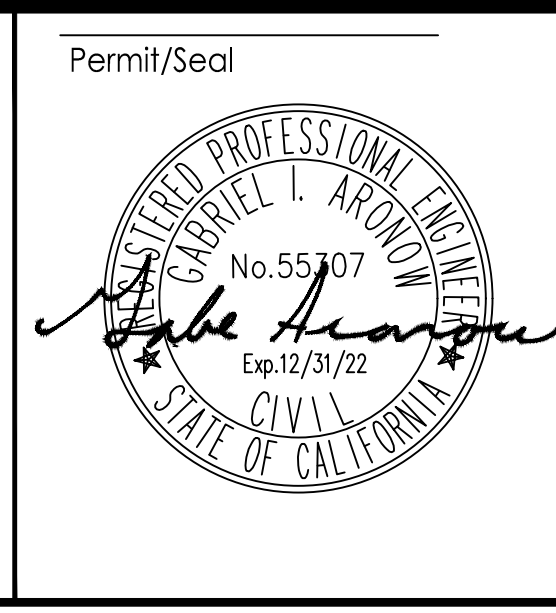


NOTE:
AS AN ALTERNATIVE CONTRACTOR MAY SUBMIT
PRECAST PLUG FOR DESIGN APPROVAL.

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Client/Project
CITY OF NEWMAN

NEWMAN INFLUENT TRUNK SEWER

NEWMAN, CALIFORNIA

File Name: X31401-GC-DETAILS

RG	FR	FR	2022.10.03
Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

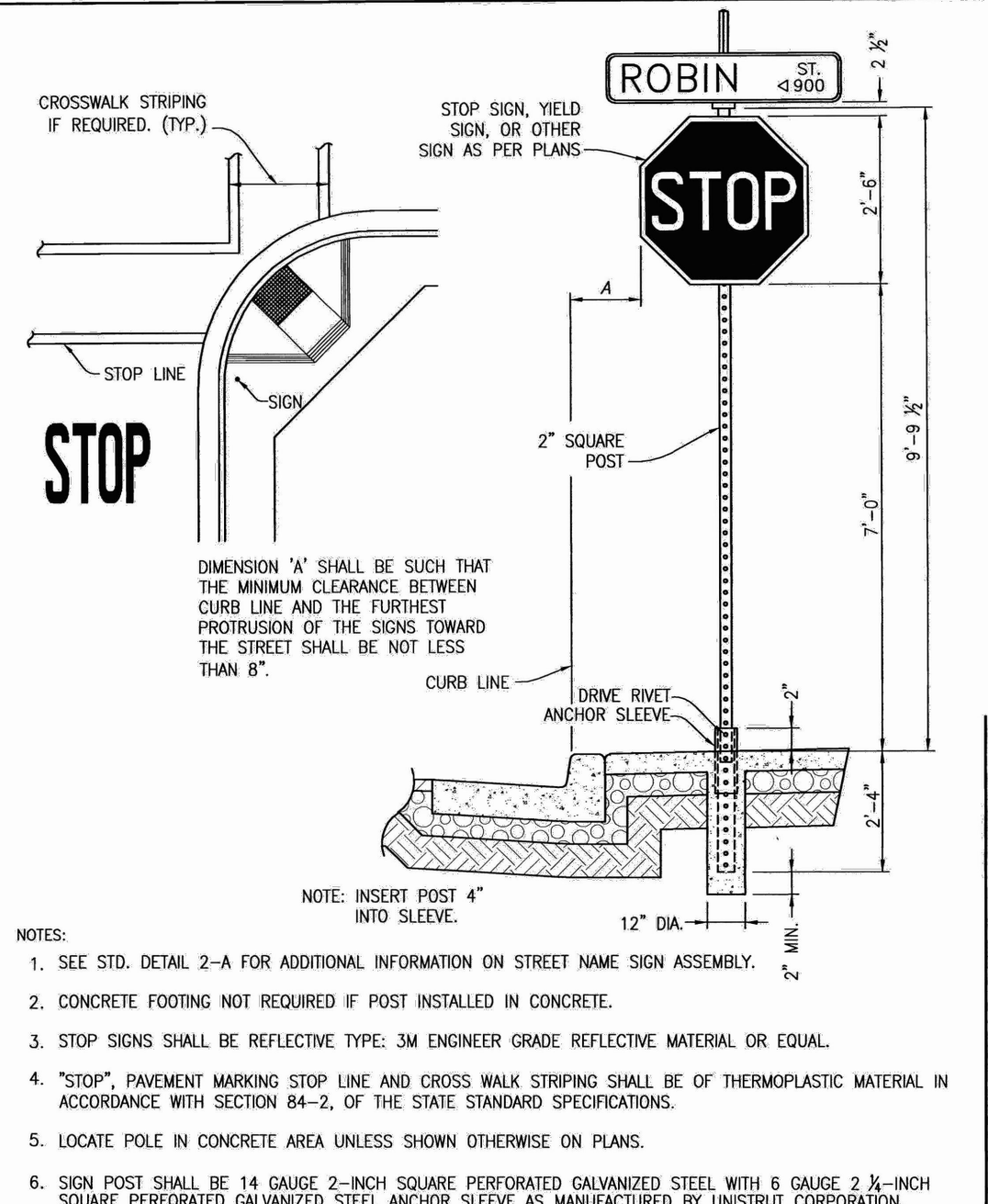
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TYPICAL CIVIL DETAILS 1

Project No. 184031401

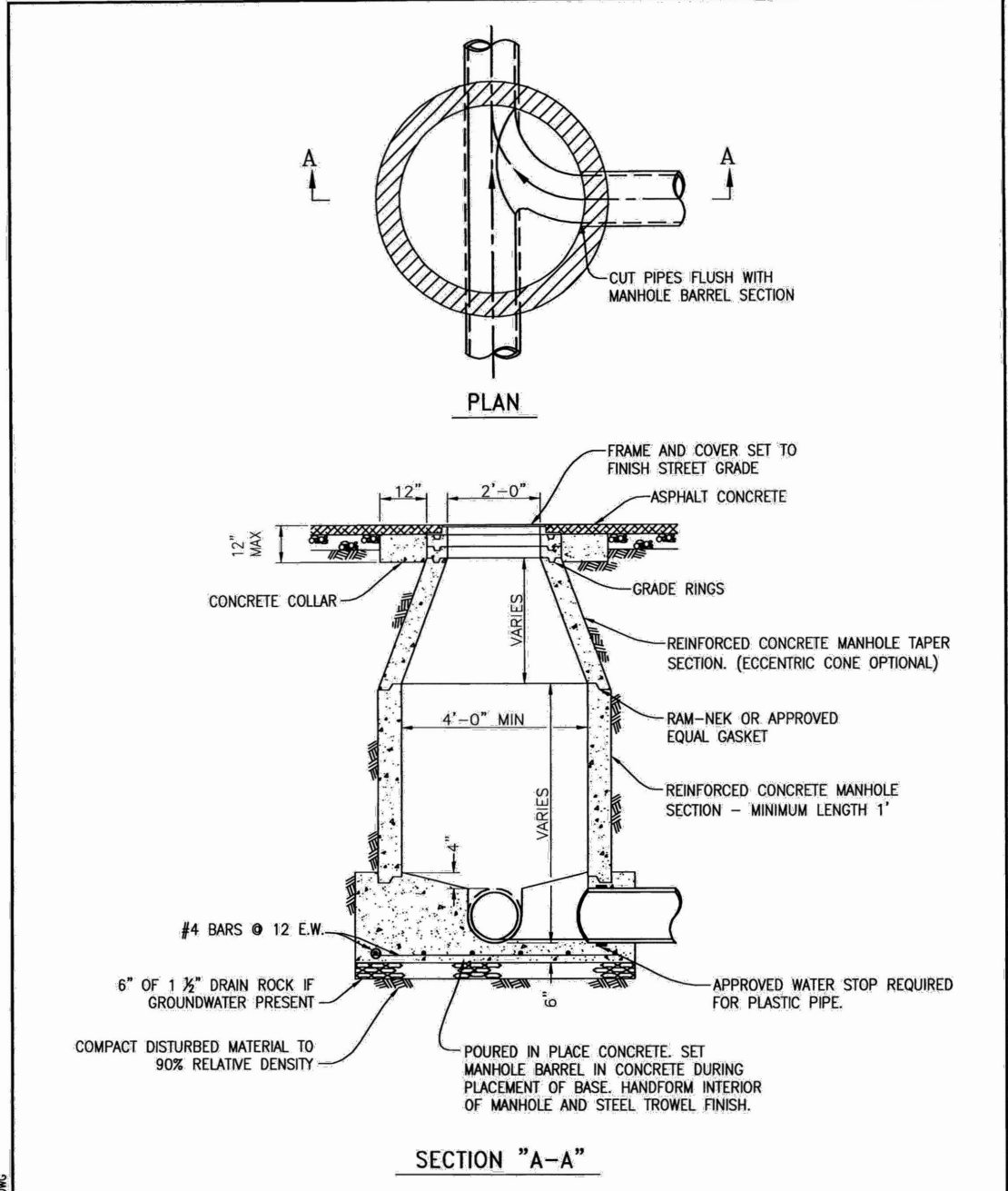
Revision Sheet Drawing No.

3 of 30

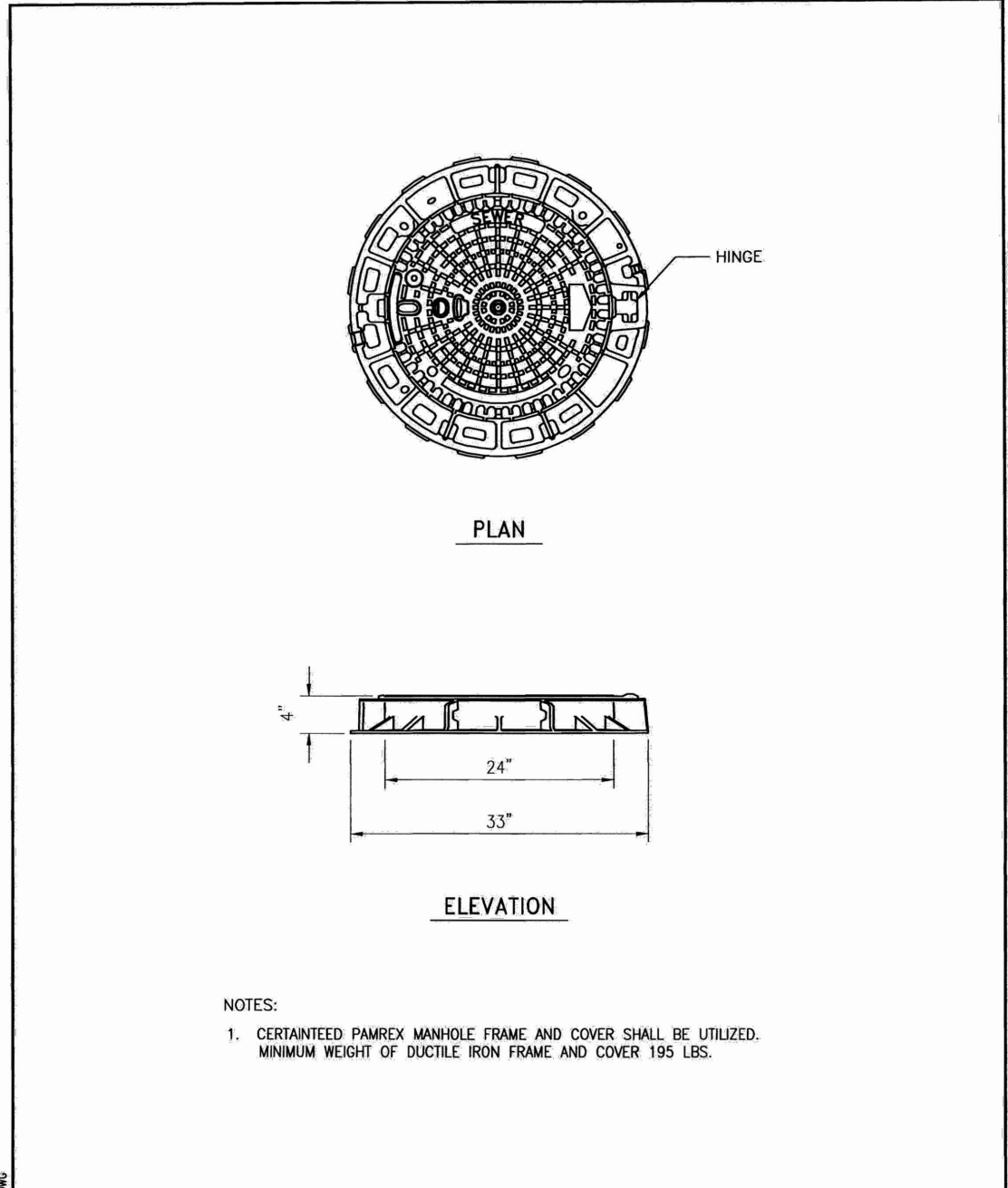
GC-01



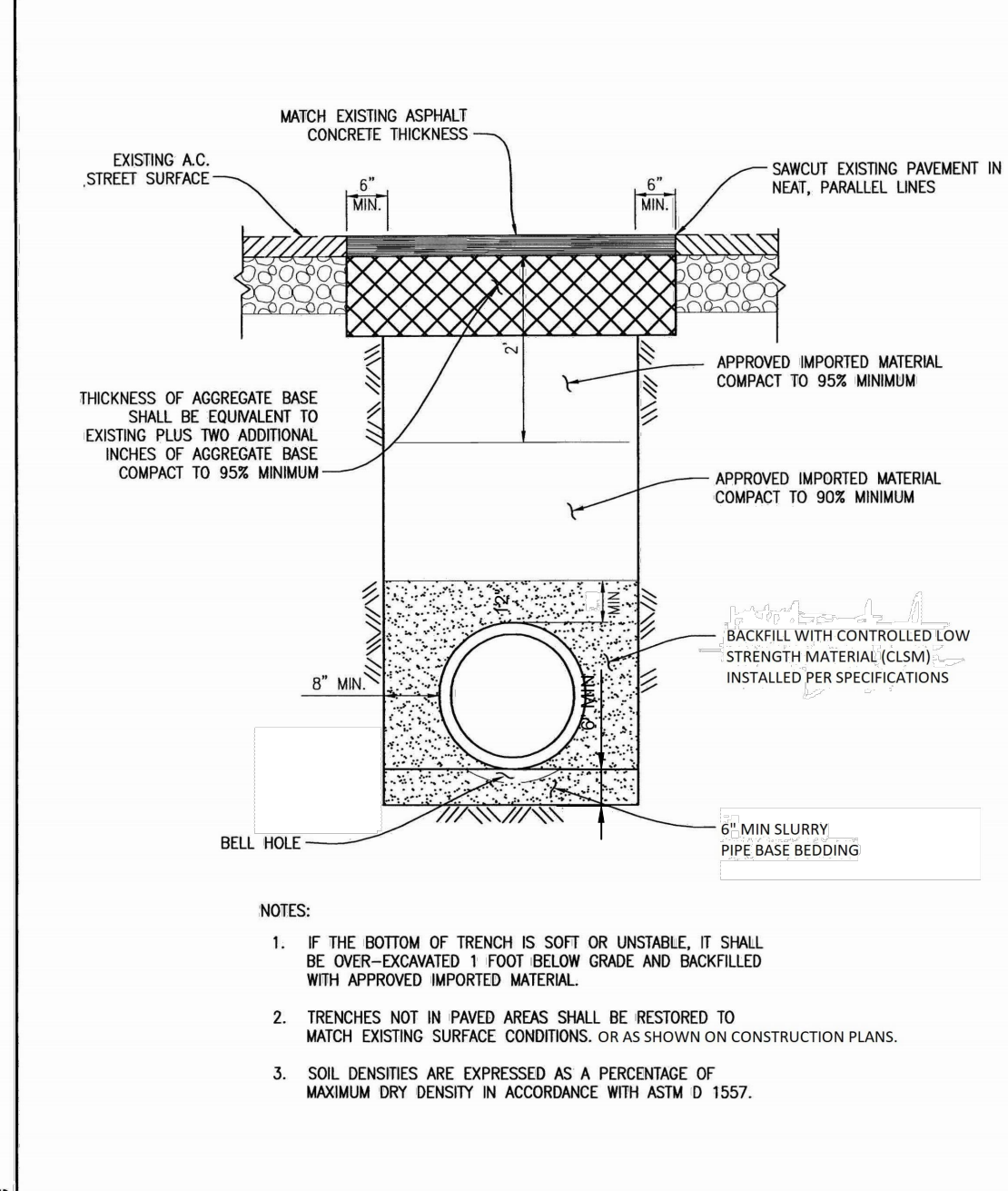
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STOP SIGN INSTALLATION
 STD. DETAIL 2-G
 APPROVED BY: *Sam R. [Signature]* DATE: 7/14/09



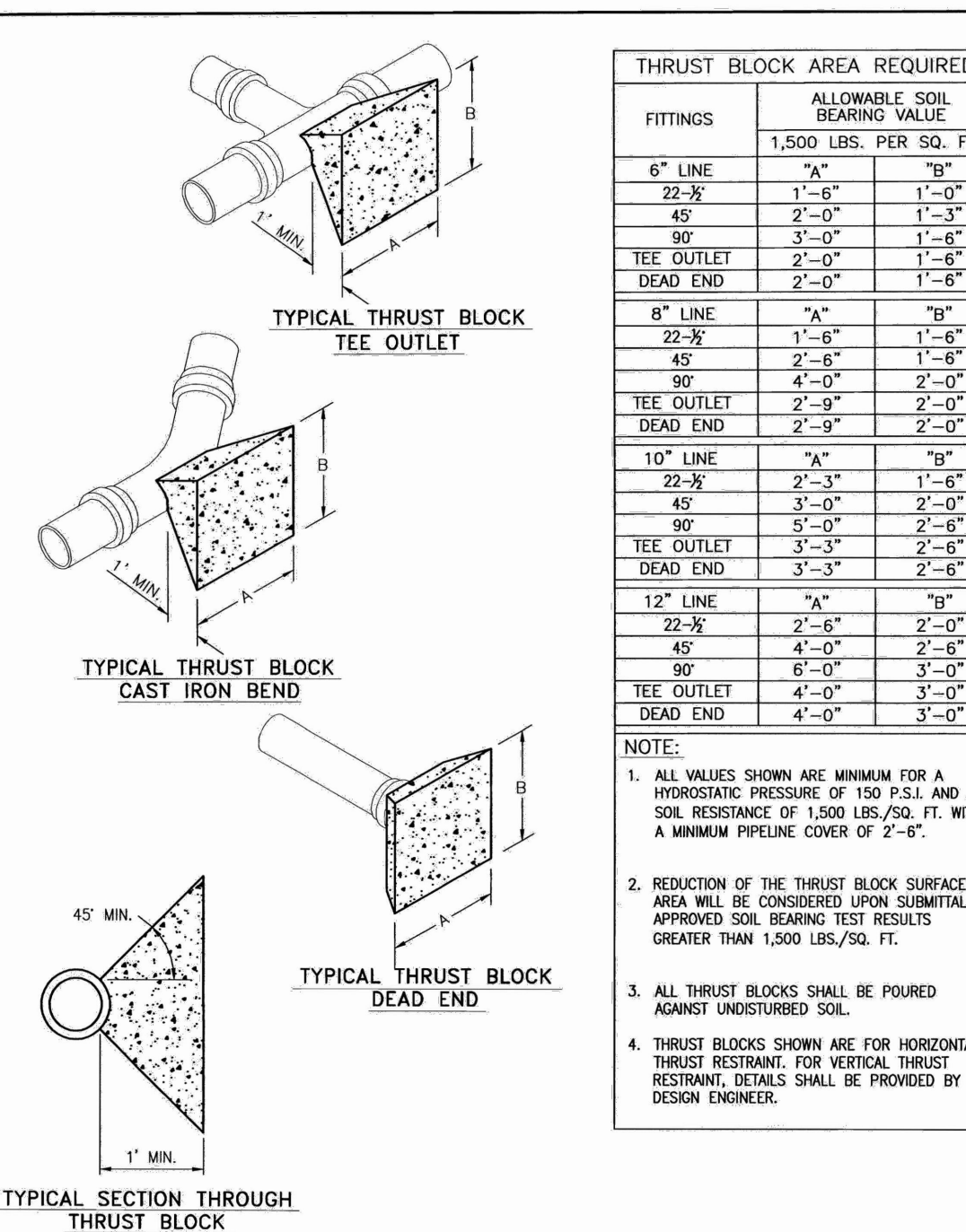
CITY OF NEWMAN IMPROVEMENT STANDARDS
SANITARY SEWER MANHOLE
 STD. DETAIL 6-A
 APPROVED BY: *Sam R. [Signature]* DATE: 7/14/09



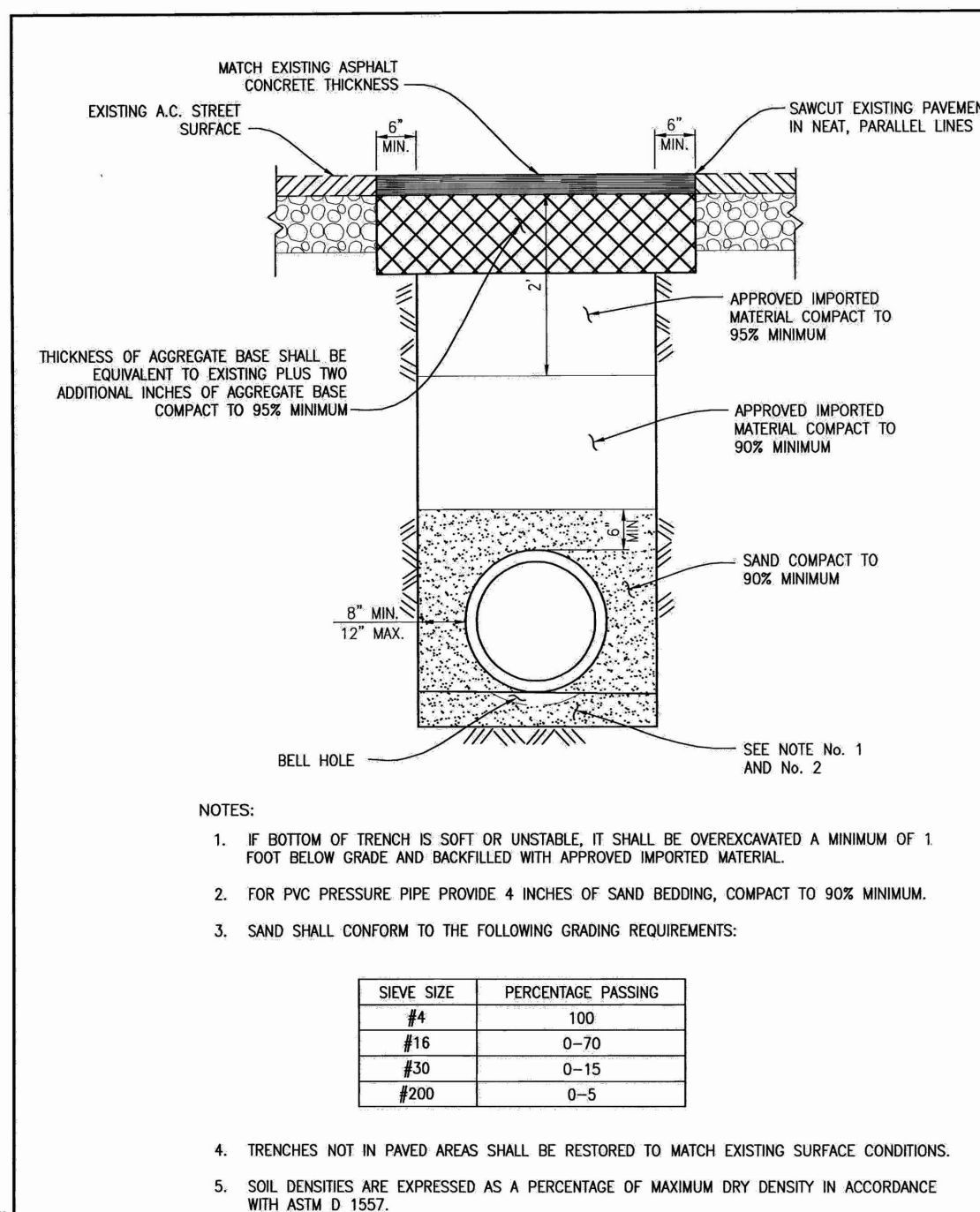
CITY OF NEWMAN IMPROVEMENT STANDARDS
PAMREX MANHOLE FRAME AND COVER
 STD. DETAIL 6-D
 APPROVED BY: *Sam R. [Signature]* DATE: 7/14/09



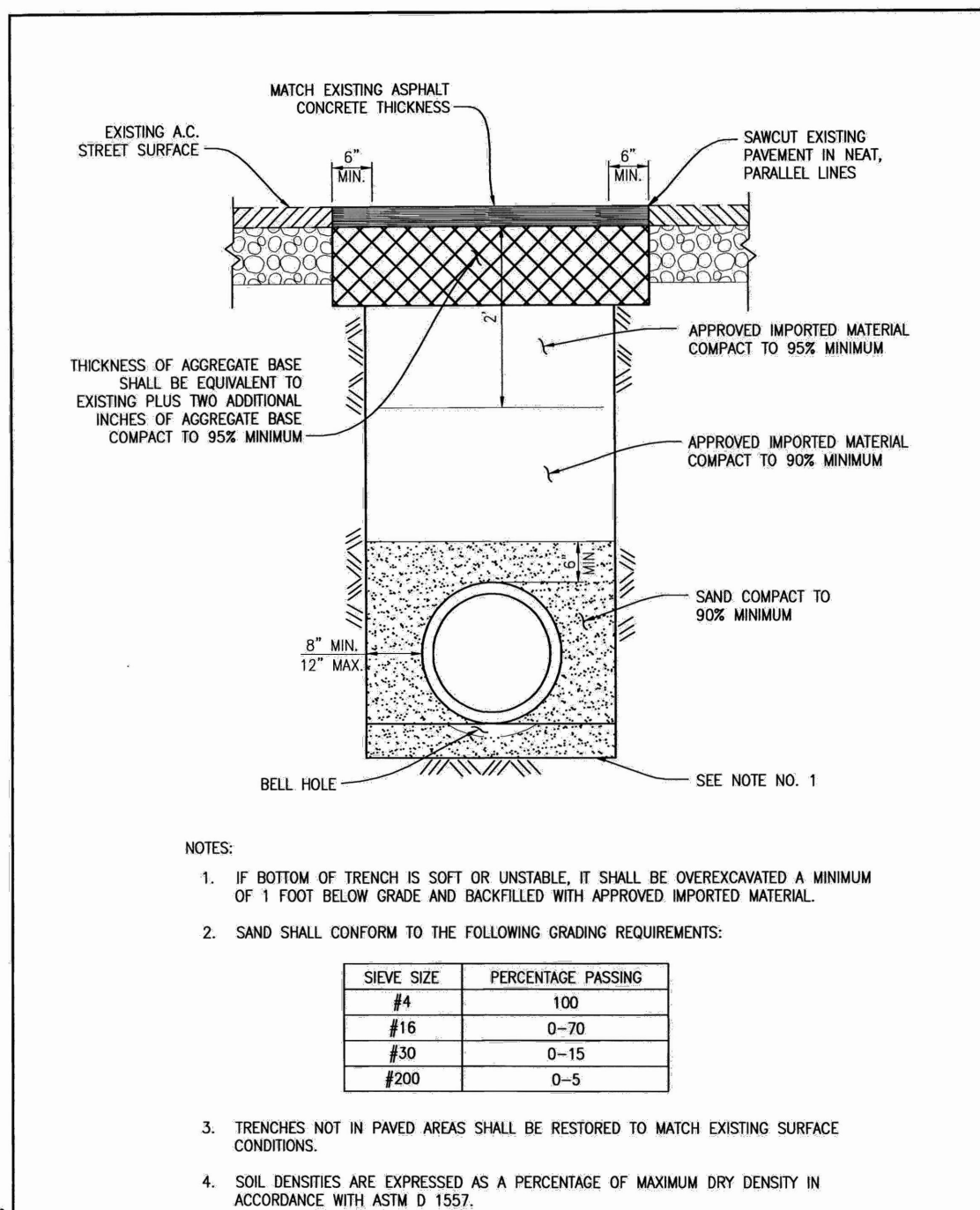
CITY OF NEWMAN IMPROVEMENT STANDARDS
FLEXIBLE WALL PIPE BACKFILL
 STD. DETAIL 6-H
 APPROVED BY: *Sam R. [Signature]* DATE: 7/14/09



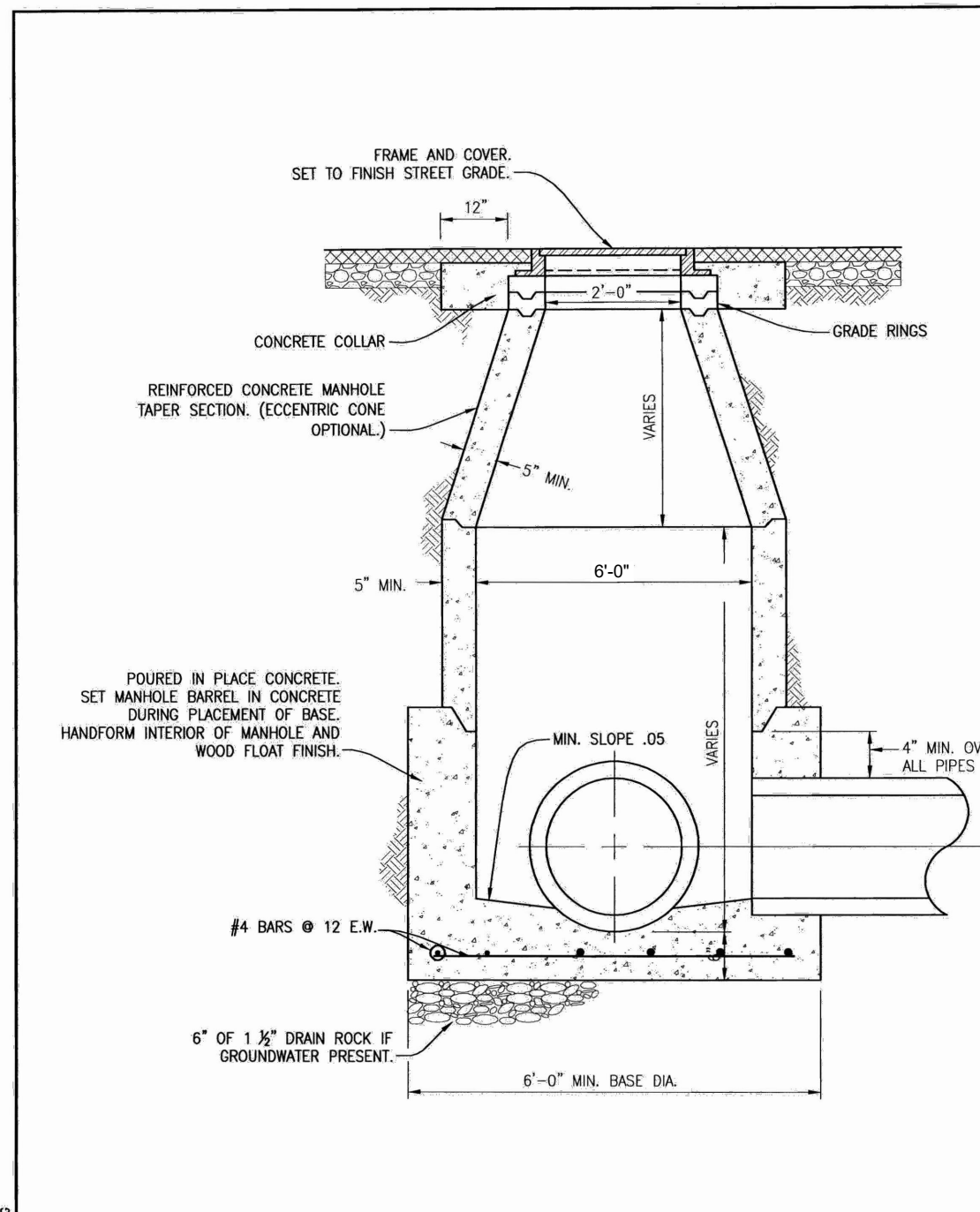
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THRUST BLOCK DETAILS
 STD. DETAIL 5-1
 APPROVED BY: *Sam R. [Signature]* DATE: 7/14/09



CITY OF NEWMAN IMPROVEMENT STANDARDS
WATER LINE TRENCH DETAIL
 STD. DETAIL 5-J
 APPROVED BY: *Sam R. [Signature]* DATE: 7/14/09



CITY OF NEWMAN IMPROVEMENT STANDARDS
RIGID WALL PIPE BACKFILL
 STD. DETAIL 7-C
 APPROVED BY: *Sam R. [Signature]* DATE: 7/14/09



CITY OF NEWMAN IMPROVEMENT STANDARDS
STORM DRAIN MANHOLE
 STD. DETAIL 7-H
 APPROVED BY: *Sam R. [Signature]* DATE: 7/14/09

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CITY OF NEWMAN

NEWMAN INFLUENT TRUNK SEWER

NEWMAN, CALIFORNIA

File Name: X31401-GC-DETAILS	RG	FR	FR	2022.10.03
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Title

TYPICAL CIVIL DETAILS 2

CITY OF NEWMAN STANDARD TYPICAL

Project No. 184031401

Scale

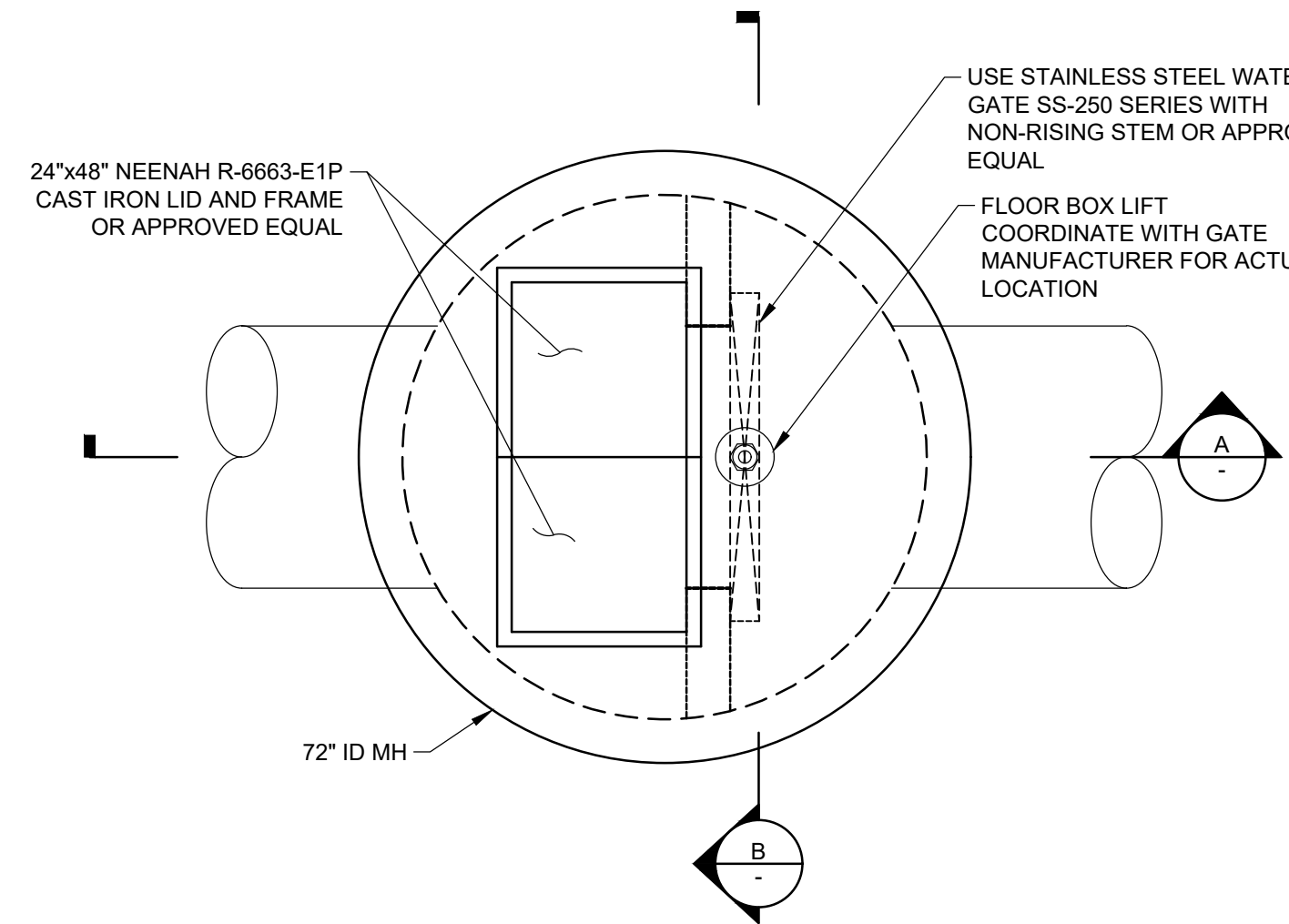
Revision Sheet Drawing No.

4 of 30

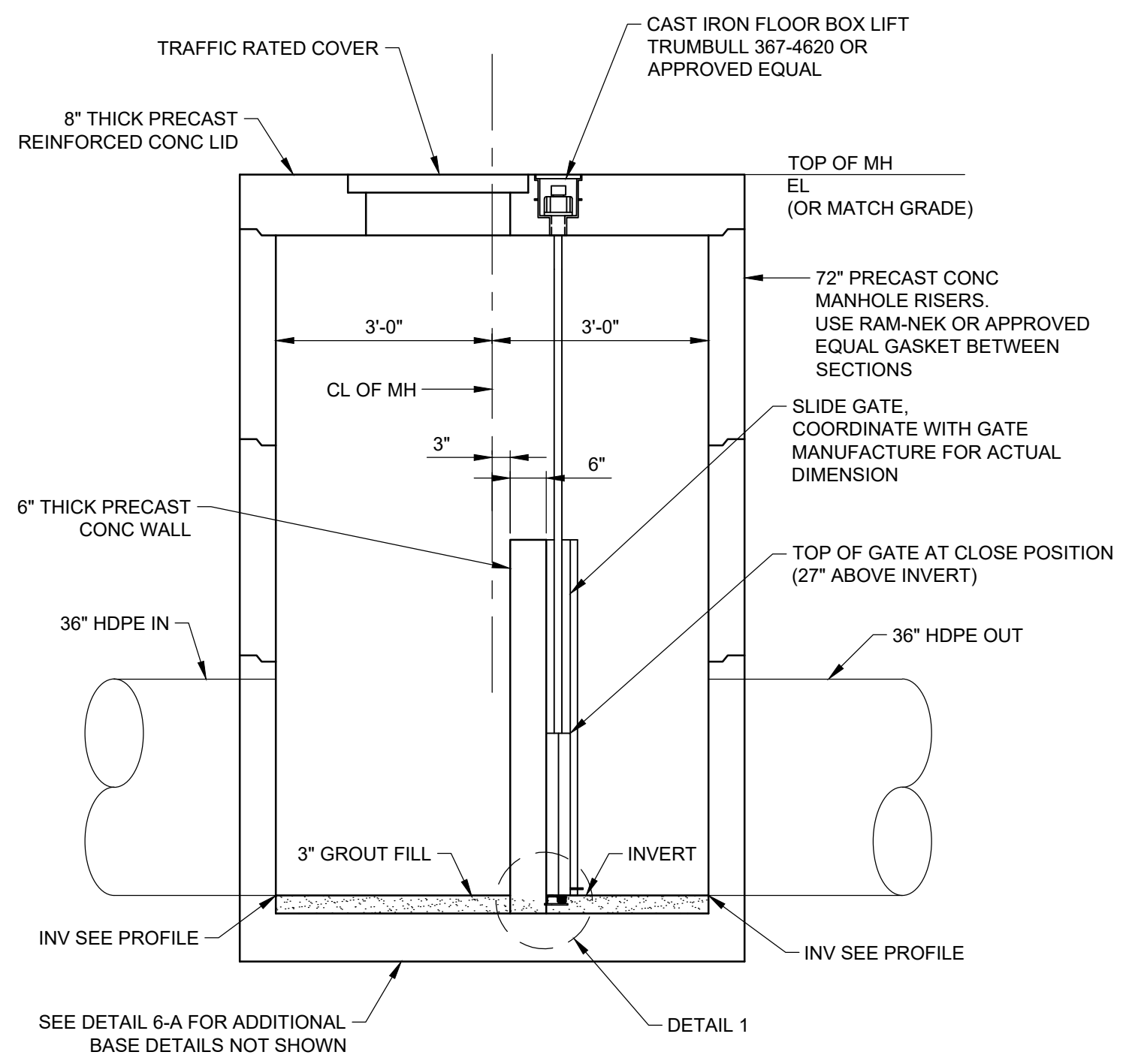
GC-02

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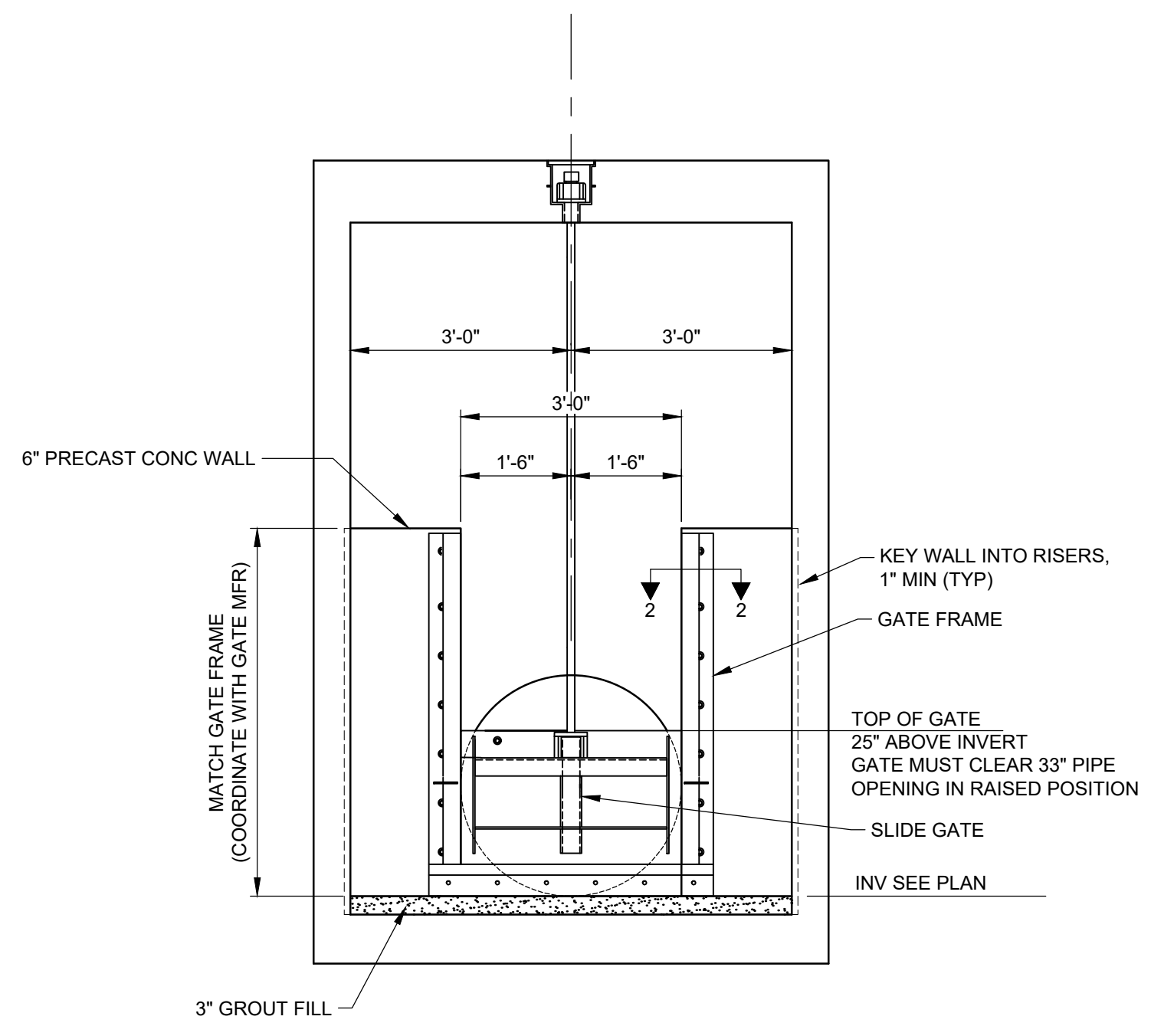
1. MANHOLE COVER, CONCRETE LID, AND FLOOR BOX LIFT SHALL BE DESIGNED TO WITHSTAND H-20 LOADING OR GREATER
2. PVC T-LOCK LINER ON INTERIOR EXPOSED CONCRETE AND GROUT SURFACES PER SPECS
3. COAT EXTERIOR OF BARREL WITH COAL TAR EPOXY.



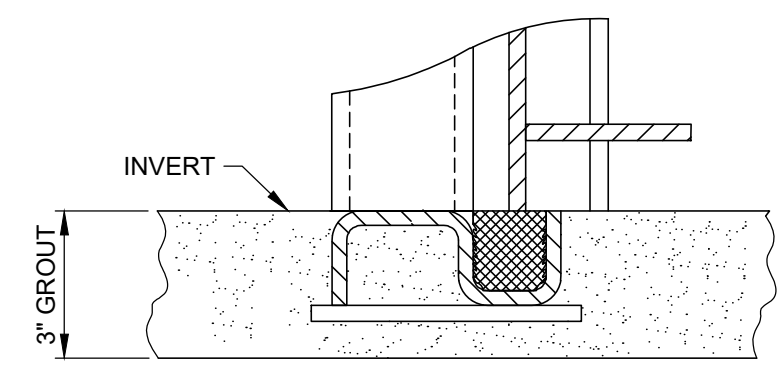
PLAN
SCALE: 1/2" = 1'-0"



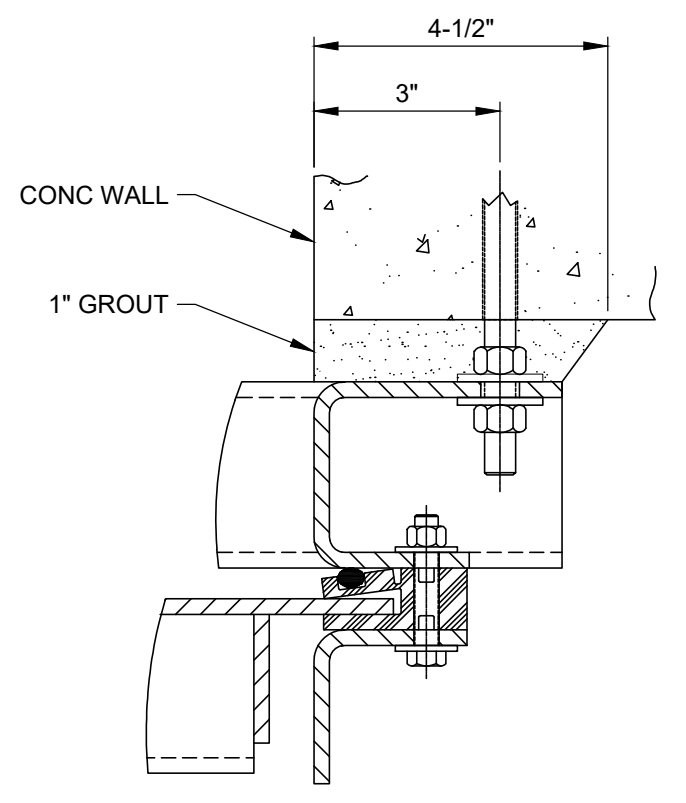
A SECTION
SCALE: 1/2" = 1'-0"



B SECTION
SCALE: 1/2" = 1'-0"



DETAIL 1



DETAIL 2

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PHASE 2 DRAWING

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CITY OF NEWMAN

NEWMAN INFLUENT TRUNK SEWER

NEWMAN, CALIFORNIA

File Name: X31401-GC-03

RG	FR	FR	2022.10.03
Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

Title

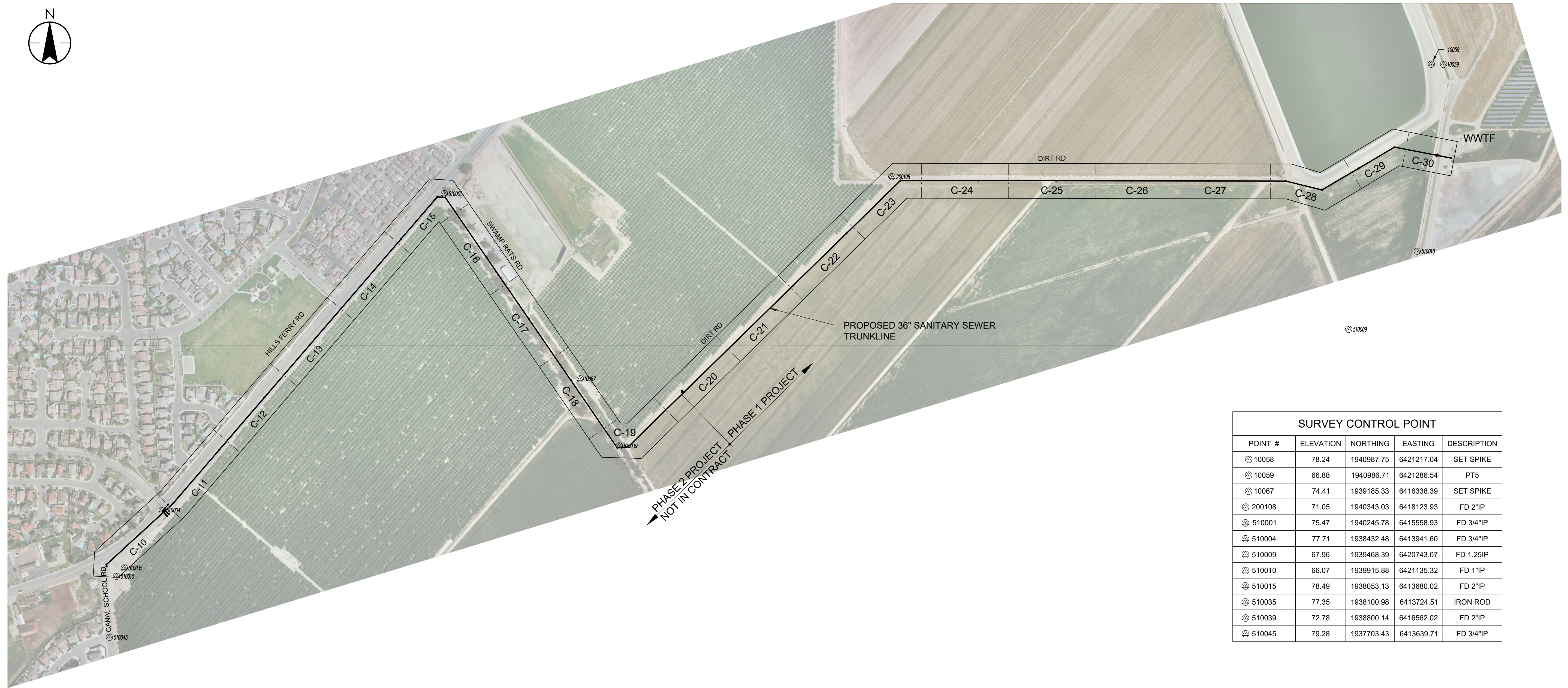
GATED MANHOLE PLAN AND SECTIONS

Project No. 184031401

Revision Sheet Drawing No. 5 of 30

Scale _____

Drawing No. **GC-03**



SURVEY CONTROL POINT				
POINT #	ELEVATION	NORTHING	EASTING	DESCRIPTION
10058	78.24	1940987.75	6421217.04	SET SPIKE
10059	66.88	1940986.71	6421286.54	PT5
10067	74.41	1939185.33	6416338.39	SET SPIKE
200108	71.05	1940343.03	6418123.93	FD 2"IP
510001	75.47	1940245.78	6415558.93	FD 3/4"IP
510004	77.71	1938432.48	6413941.60	FD 3/4"IP
510009	67.96	1939468.39	6420743.07	FD 1.25IP
510010	66.07	1939915.88	6421135.32	FD 1"IP
510015	78.49	1938053.13	6413680.02	FD 2"IP
510035	77.35	1938100.98	6413724.51	IRON ROD
510039	72.78	1938800.14	6416562.02	FD 2"IP
510045	79.28	1937703.43	6413639.71	FD 3/4"IP

VERTICAL DATUM: NGVD29
 NGVD29 BASED ON BENCHMARK "J-982" ELEV: 66.77FT
 NAVD88 CONVERSION: SUBTRACT 2.43 NAVD 88 TO NGVD29

HORIZONTAL DATUM:
 CALIFORNIA STATE PLAN COORDINATE SYSTEM ZONE II
 NAD83 (1991.35) CA HPGN

MEAN COMBINATION FACTOR (CF)
 0.999957237089 1361
 DISTANCE SHOWN HEREON ARE GRID DISTANCES
 TO CONVERT GRID DISTANCE TO GROUND DISTANCE ... DIVIDED BY THE CF
 TO CONVERT GROUND DISTANCE TO GRID DISTANCE ... MULTIPLE BY THE CF



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Revision	By	Appd	YYYY.MM.DD

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NEWMAN, CALIFORNIA

File Name: X31401-C01

RG	FR	FR	2022.10.03
Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

Title

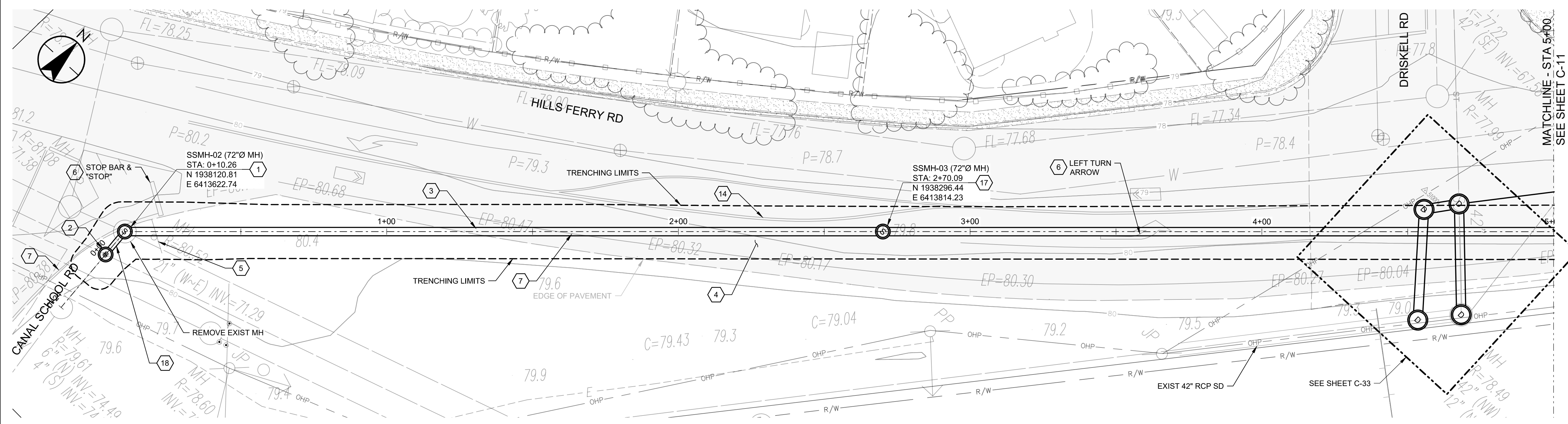
GENERAL SITE PLAN / KEY PLAN AND SURVEY CONTROL

Project No. 184031401

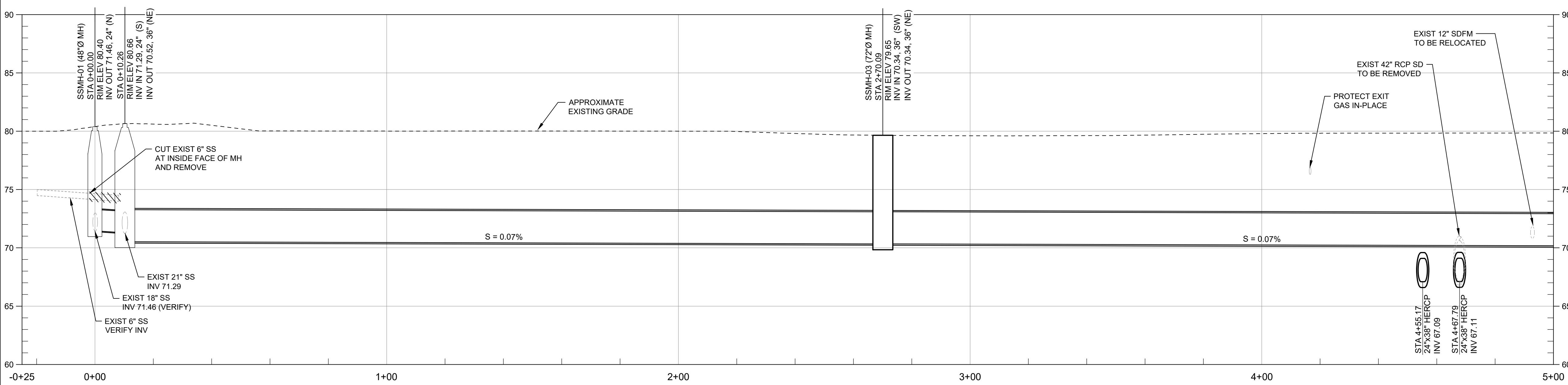
Revision Sheet 6 of 30

Scale

Drawing No. C-01



PLAN
SCALE: 1" = 20'



PROFILE
SCALE: HORZ 1" = 20', VERT 1" = 5'

- GENERAL NOTES:**
- IT IS THE CONTRACTOR RESPONSIBILITY TO VERIFY ALL LOCATIONS OF EXISTING UTILITIES AND PROTECT IN PLACE ALL EXISTING UTILITIES NOT DESIGNATED FOR RELOCATION.
- CONSTRUCTION NOTES:**
- CONSTRUCT 72" DIAMETER POLYURETHANE-LINED MANHOLE. SEE DETAIL 6-A ON SHEET GC-02
 - CONSTRUCT 60" DIAMETER POLYURETHANE-LINED MANHOLE. SEE DETAIL 6-A ON SHEET GC-02
 - CONSTRUCT I.P.S 36" DR26 HDPE PIPE. SEE TRENCH DETAIL SHEET GC-01
 - REMOVE AND REPLACE ASPHALT PAVING PER DETAIL 6-H ON SHEET GC-02
 - REMOVE AND RESET TRAFFIC SIGNS
 - REPLACE PAVEMENT MARKINGS IN KIND.
 - REPLACE SOLID WHITE LINE (50 MIL POLYUREA)
 - REPLACE BICYCLE LANE MARKING IN KIND
 - REMOVE EXISTING SEWER PIPE AND RE-GRADE DITCH (INSTALL PIPE PLUG PER DETAIL 2/TYP ON SHEET GC-02)
 - CONSTRUCT ~~72" DIAMETER POLYURETHANE-LINED MANHOLE~~ **NOT USED** SEE DETAIL 6
 - CONSTRUCT CMP CULVERT AND HEADWALLS, SEE DETAIL ON SHEET C-31
 - REMOVE AND RESET EXISTING FENCE
 - REMOVE EXISTING MANHOLE (INSTALL PLUG PER DETAIL)
 - REPLACE DOUBLE YELLOW LINE 50 MIL POLYUREA AND RAISED PAVEMENT MARKER AT THE SAME LOCATION
 - CONSTRUCT ~~72" DIAMETER STORM MANHOLE PER DETAIL 7-H ON SHEET GC-02~~ **NOT USED** SEE SHEET C-33
 - REMOVE EXISTING TREE
 - CONSTRUCT 72" FLAT TOP CONCRETE GATED MANHOLE. SEE SHEET GC-03
 - CONSTRUCT D.I.P.S 18" DR 26 HDPE SANITARY SEWER PIPE. SEE TRENCH DETAIL GC-02
 - CONSTRUCT D.I.P.S 24" DR 26 HDPE SANITARY SEWER PIPE. SEE TRENCH DETAIL SHEET GC-02
 - CONSTRUCT 72" DIAMETER STORM MANHOLE PER DETAIL 7-H ON SHEET GC-02
 - CONSTRUCT 24"x38" HERCP. SEE TRENCH SECTION DETAIL 7-C ON SHEET GC-02
 - CONSTRUCT 12" AWWA C-900 PVC STORM DRAIN FOREMAIN. SEE TRENCH SECTION 5-J ON SHEET GC-02
 - REMOVE EXISTING STORM DRAIN
 - REMOVE EXISTING 12" PVC STORM DRAIN FORCE MAIN.



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PHASE 2 DRAWING

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NEWMAN INFLUENT TRUNK SEWER

NEWMAN, CALIFORNIA

File Name: X31401-PLAN AND PROF

RG	FR	FR	2022.10.03
Dwn.	Dsgn.	Chk.	YYYY.MM.DD

Title

36" SS TRUNKLINE PLAN AND PROFILE STA -0+25 TO STA 5+00

Project No. 184031401

Revision Sheet Drawing No. **C-10**

7 of 30

GENERAL NOTES:

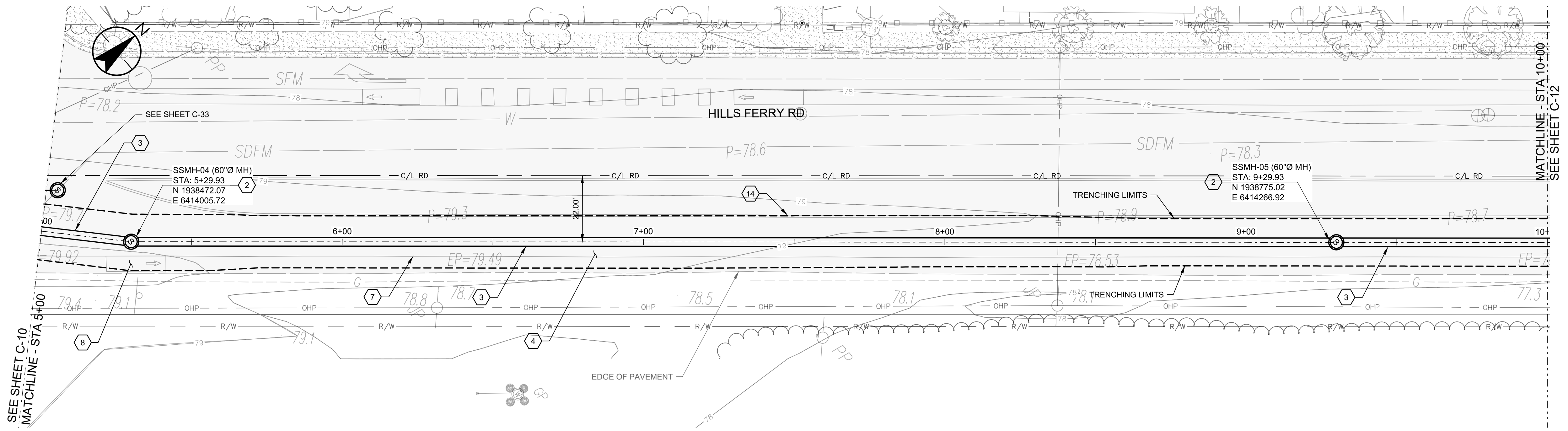
1. IT IS THE CONTRACTOR RESPONSIBILITY TO VERIFY ALL LOCATIONS OF EXISTING UTILITIES AND PROTECT IN PLACE ALL EXISTING UTILITIES NOT DESIGNATED FOR RELOCATION.

CONSTRUCTION NOTES:

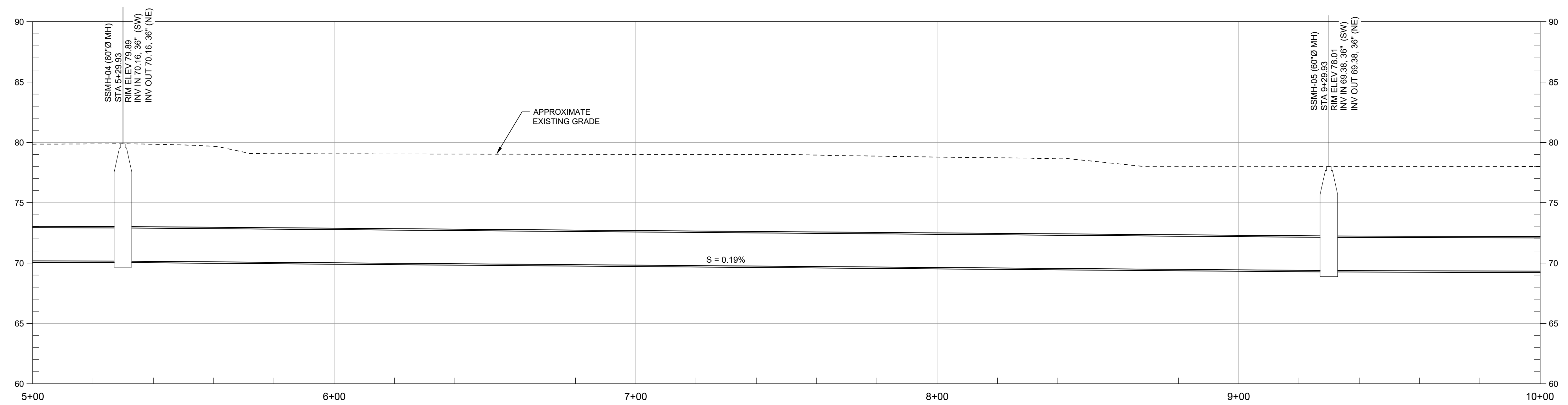
1. CONSTRUCT 72" DIAMETER POLYURETHANE-LINED MANHOLE. SEE DETAIL 6-A ON SHEET GC-02
2. CONSTRUCT 60" DIAMETER POLYURETHANE-LINED MANHOLE. SEE DETAIL 6-A ON SHEET GC-02
3. CONSTRUCT I.P.S 36" DR26 HDPE PIPE. SEE TRENCH DETAIL SHEET GC-01
4. REMOVE AND REPLACE ASPHALT PAVING PER DETAIL 6-H ON SHEET GC-02
5. REMOVE AND RESET TRAFFIC SIGNS
6. REPLACE PAVEMENT MARKINGS IN KIND.
7. REPLACE SOLID WHITE LINE (50 MIL POLYUREA)
8. REPLACE BICYCLE LANE MARKING IN KIND
9. REMOVE EXISTING SEWER PIPE AND RE-GRADE DITCH (INSTALL PIPE PLUG PER DETAIL 2/TYP ON SHEET GC-02)
10. CONSTRUCT ~~72" DIAMETER POLYURETHANE-LINED MANHOLE~~ **NOT USED** SEE DETAIL 6
11. CONSTRUCT CMP CULVERT AND HEADWALLS, SEE DETAIL ON SHEET C-31
12. REMOVE AND RESET EXISTING FENCE
13. REMOVE EXISTING MANHOLE (INSTALL PLUG PER DETAIL)
14. REPLACE DOUBLE YELLOW LINE 50 MILL POLYUREA AND RAISED PAVEMENT MARKER AT THE SAME LOCATION
15. CONSTRUCT ~~72" DIAMETER POLYURETHANE-LINED MANHOLE~~ **NOT USED** SEE SHEET C-33
16. REMOVE EXISTING TREE
17. CONSTRUCT 72" FLAT TOP CONCRETE GATED MANHOLE. SEE SHEET GC-03
18. CONSTRUCT D.I.P.S 18" DR 26 HDPE SANITARY SEWER PIPE. SEE TRENCH DETAIL GC-02
19. CONSTRUCT D.I.P.S 24" DR 26 HDPE SANITARY SEWER PIPE. SEE TRENCH DETAIL SHEET GC-02
20. CONSTRUCT 72" DIAMETER STORM MANHOLE PER DETAIL 7-H ON SHEET GC-02
21. CONSTRUCT 24"x38" HERCP. SEE TRENCH SECTION DETAIL 7-C ON SHEET GC-02
22. CONSTRUCT 12" AWWA C-900 PVC STORM DRAIN FOREMAIN. SEE TRENCH SECTION 5-J ON SHEET GC-02
23. REMOVE EXISTING STORM DRAIN
24. REMOVE EXISTING 12" PVC STORM DRAIN FORCE MAIN.



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PLAN
SCALE: 1" = 20'



PROFILE
SCALE: HORZ 1" = 20', VERT 1" = 5'

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PHASE 2 DRAWING

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NEWMAN, CALIFORNIA

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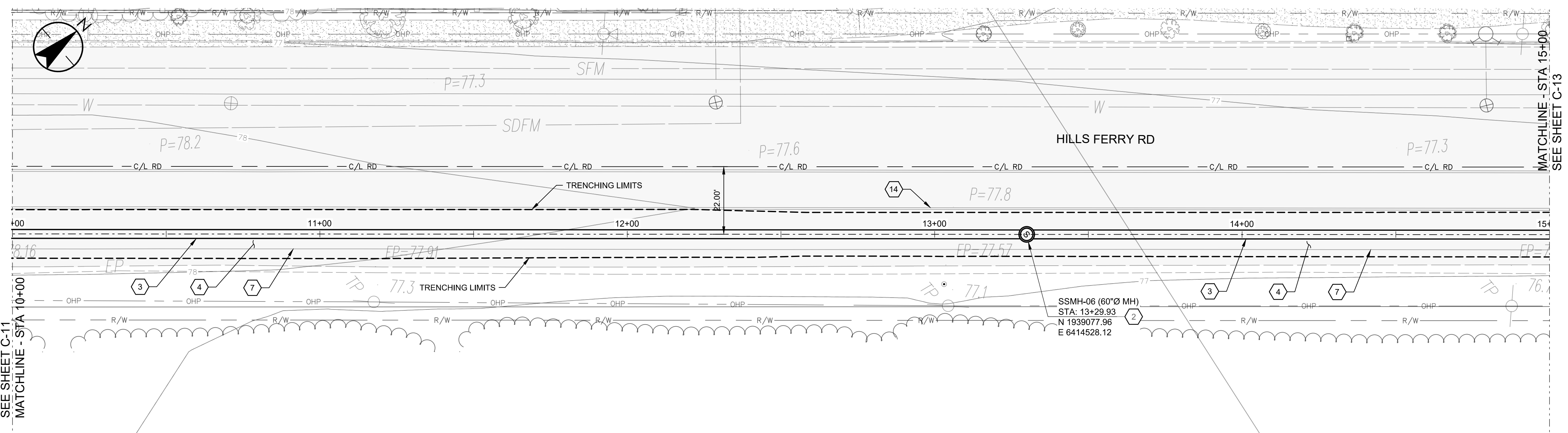
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Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

Title

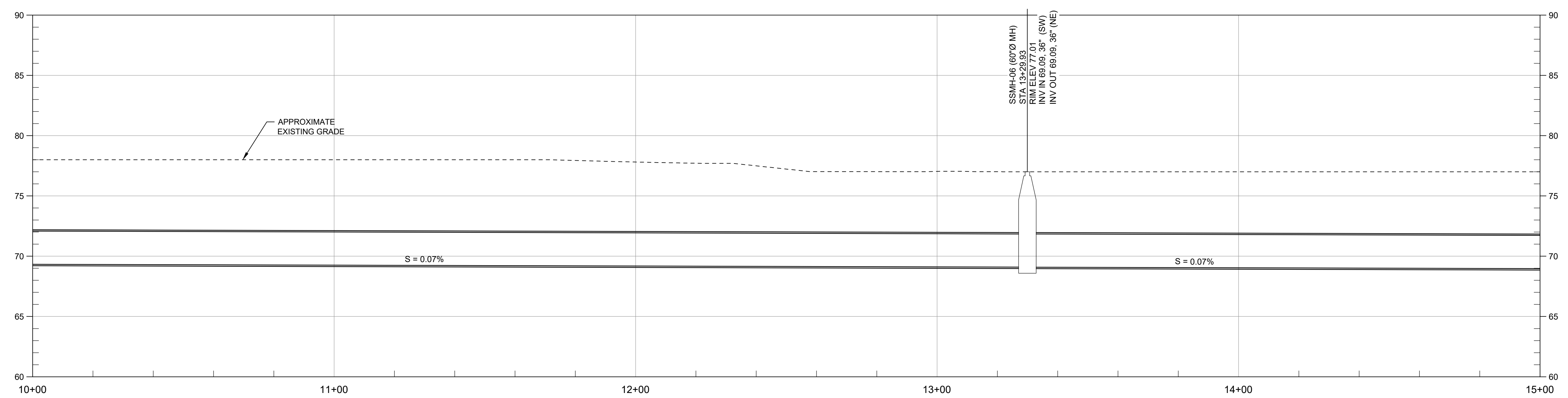
36" TRUNKLINE PLAN AND PROFILE STA 5+00 TO STA 10+00

Project No. 184031401

Revision Sheet Drawing No. 8 of 30 **C-11**



PLAN
SCALE: 1" = 20'



PROFILE
SCALE: HORZ 1" = 20', VERT 1" = 5'

- GENERAL NOTES:**
- IT IS THE CONTRACTOR RESPONSIBILITY TO VERIFY ALL LOCATIONS OF EXISTING UTILITIES AND PROTECT IN PLACE ALL EXISTING UTILITIES NOT DESIGNATED FOR RELOCATION.
- CONSTRUCTION NOTES:**
- CONSTRUCT 72" DIAMETER POLYURETHANE-LINED MANHOLE. SEE DETAIL 6-A ON SHEET GC-02
 - CONSTRUCT 60" DIAMETER POLYURETHANE-LINED MANHOLE. SEE DETAIL 6-A ON SHEET GC-02
 - CONSTRUCT I.P.S 36" DR26 HDPE PIPE. SEE TRENCH DETAIL SHEET GC-01
 - REMOVE AND REPLACE ASPHALT PAVING PER DETAIL 6-H ON SHEET GC-02
 - REMOVE AND RESET TRAFFIC SIGNS
 - REPLACE PAVEMENT MARKINGS IN KIND.
 - REPLACE SOLID WHITE LINE (50 MIL POLYUREA)
 - REPLACE BICYCLE LANE MARKING IN KIND
 - REMOVE EXISTING SEWER PIPE AND RE-GRADE DITCH (INSTALL PIPE PLUG PER DETAIL 2/TYP ON SHEET GC-02)
 - CONSTRUCT ~~72" DIAMETER POLYURETHANE-LINED MANHOLE~~ **NOT USED** SEE DETAIL 6-2
 - CONSTRUCT CMP CULVERT AND HEADWALLS, SEE DETAIL ON SHEET C-31
 - REMOVE AND RESET EXISTING FENCE
 - REMOVE EXISTING MANHOLE (INSTALL PLUG PER DETAIL)
 - REPLACE DOUBLE YELLOW LINE 50 MILL POLYUREA AND RAISED PAVEMENT MARKER AT THE SAME LOCATION
 - CONSTRUCT ~~72" DIAMETER POLYURETHANE-LINED MANHOLE~~ **NOT USED** SEE SHEET C-33
 - REMOVE EXISTING TREE
 - CONSTRUCT 72" FLAT TOP CONCRETE GATED MANHOLE. SEE SHEET GC-03
 - CONSTRUCT D.I.P.S 18" DR 26 HDPE SANITARY SEWER PIPE. SEE TRENCH DETAIL GC-02
 - CONSTRUCT D.I.P.S 24" DR 26 HDPE SANITARY SEWER PIPE. SEE TRENCH DETAIL SHEET GC-02
 - CONSTRUCT 72" DIAMETER STORM MANHOLE PER DETAIL 7-H ON SHEET GC-02
 - CONSTRUCT 24"x38" HERCP. SEE TRENCH SECTION DETAIL 7-C ON SHEET GC-02
 - CONSTRUCT 12" AWWA C-900 PVC STORM DRAIN FOREMAIN. SEE TRENCH SECTION 5-J ON SHEET GC-02
 - REMOVE EXISTING STORM DRAIN
 - REMOVE EXISTING 12" PVC STORM DRAIN FORCE MAIN.



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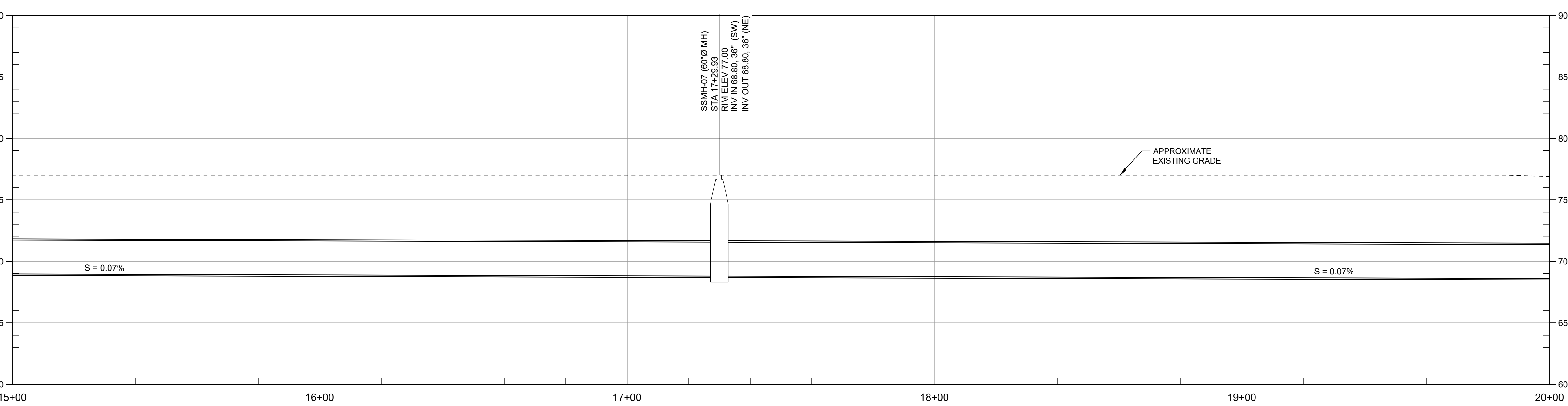
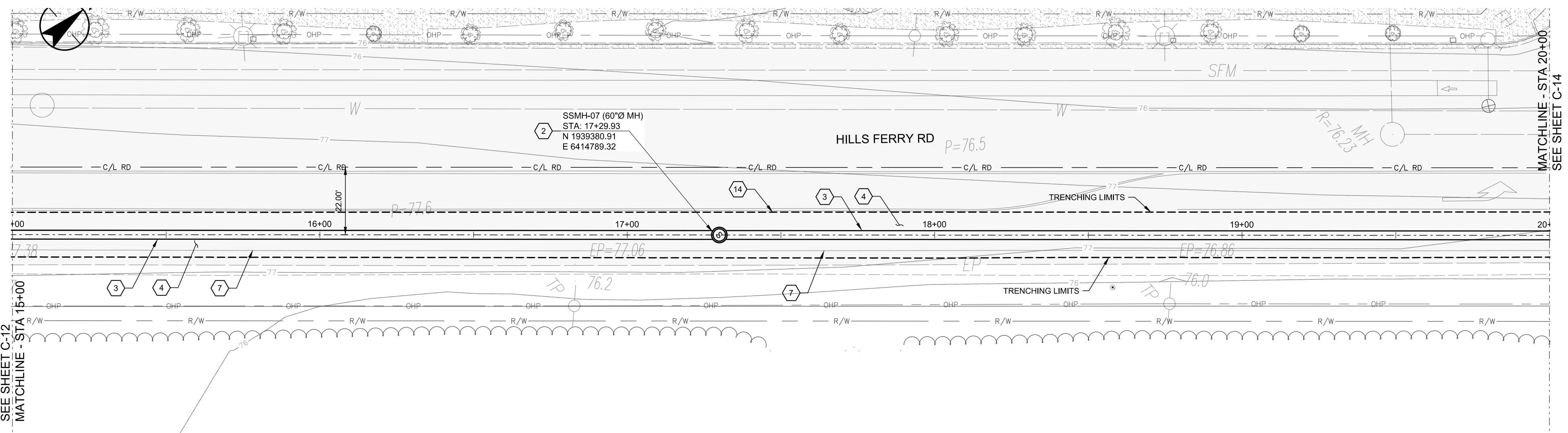
36" SS TRUNKLINE PLAN AND PROFILE STA 10+00 TO STA 15+00

Project No. 184031401

Scale _____

Revision Sheet Drawing No.

9 of 30 **C-12**



- GENERAL NOTES:**
- IT IS THE CONTRACTOR RESPONSIBILITY TO VERIFY ALL LOCATIONS OF EXISTING UTILITIES AND PROTECT IN PLACE ALL EXISTING UTILITIES NOT DESIGNATED FOR RELOCATION.
- CONSTRUCTION NOTES:**
- CONSTRUCT 72" DIAMETER POLYURETHANE-LINED MANHOLE. SEE DETAIL 6-A ON SHEET GC-02
 - CONSTRUCT 60" DIAMETER POLYURETHANE-LINED MANHOLE. SEE DETAIL 6-A ON SHEET GC-02
 - CONSTRUCT I.P.S 36" DR26 HDPE PIPE. SEE TRENCH DETAIL SHEET GC-01
 - REMOVE AND REPLACE ASPHALT PAVING PER DETAIL 6-H ON SHEET GC-02
 - REMOVE AND RESET TRAFFIC SIGNS
 - REPLACE PAVEMENT MARKINGS IN KIND.
 - REPLACE SOLID WHITE LINE (50 MILL POLYUREA)
 - REPLACE BICYCLE LANE MARKING IN KIND
 - REMOVE EXISTING SEWER PIPE AND RE-GRADE DITCH (INSTALL PIPE PLUG PER DETAIL 2/TYP ON SHEET GC-02)
 - CONSTRUCT ~~YURETHANE LINE MANHOLE~~ **NOT USED** SEE DETAIL 6
 - CONSTRUCT CMP CULVERT AND HEADWALLS, SEE DETAIL ON SHEET C-31
 - REMOVE AND RESET EXISTING FENCE
 - REMOVE EXISTING MANHOLE (INSTALL PLUG PER DETAIL)
 - REPLACE DOUBLE YELLOW LINE 50 MILL POLYUREA AND RAISED PAVEMENT MARKER AT THE SAME LOCATION
 - CONSTRUCT ~~NOT USED~~ SEE SHEET C-33
 - REMOVE EXISTING TREE
 - CONSTRUCT 72" FLAT TOP CONCRETE GATED MANHOLE. SEE SHEET GC-03
 - CONSTRUCT D.I.P.S 18" DR 26 HDPE SANITARY SEWER PIPE. SEE TRENCH DETAIL GC-02
 - CONSTRUCT D.I.P.S 24" DR 26 HDPE SANITARY SEWER PIPE. SEE TRENCH DETAIL SHEET GC-02
 - CONSTRUCT 72" DIAMETER STORM MANHOLE PER DETAIL 7-H ON SHEET GC-02
 - CONSTRUCT 24"x38" HERCP. SEE TRENCH SECTION DETAIL 7-C ON SHEET GC-02
 - CONSTRUCT 12" AWWA C-900 PVC STORM DRAIN FOREMAIN. SEE TRENCH SECTION 5-J ON SHEET GC-02
 - REMOVE EXISTING STORM DRAIN
 - REMOVE EXISTING 12" PVC STORM DRAIN FORCE MAIN.



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File Name: X31401-PLAN AND PROF

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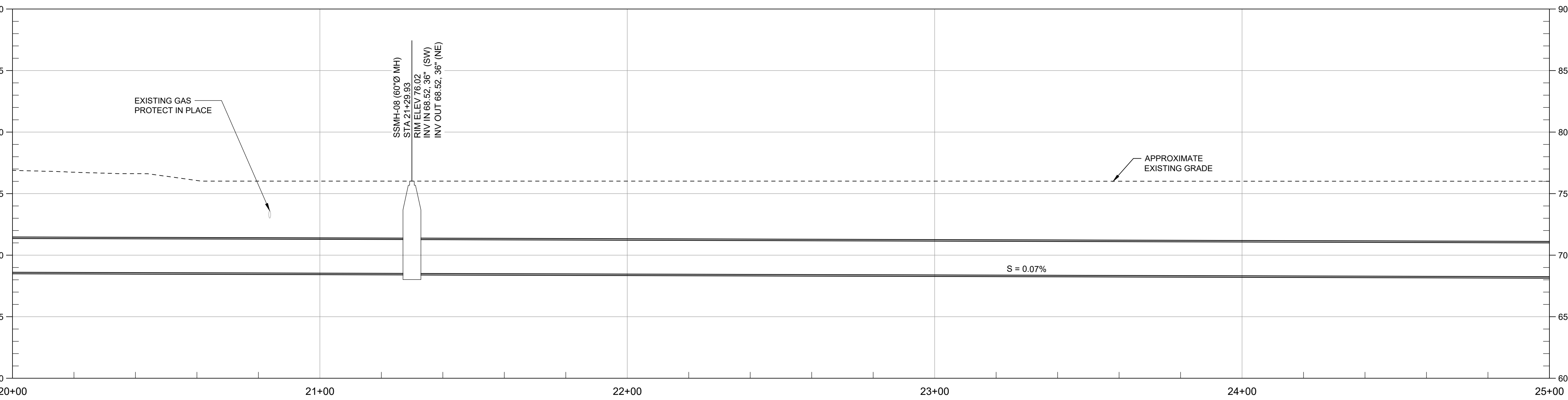
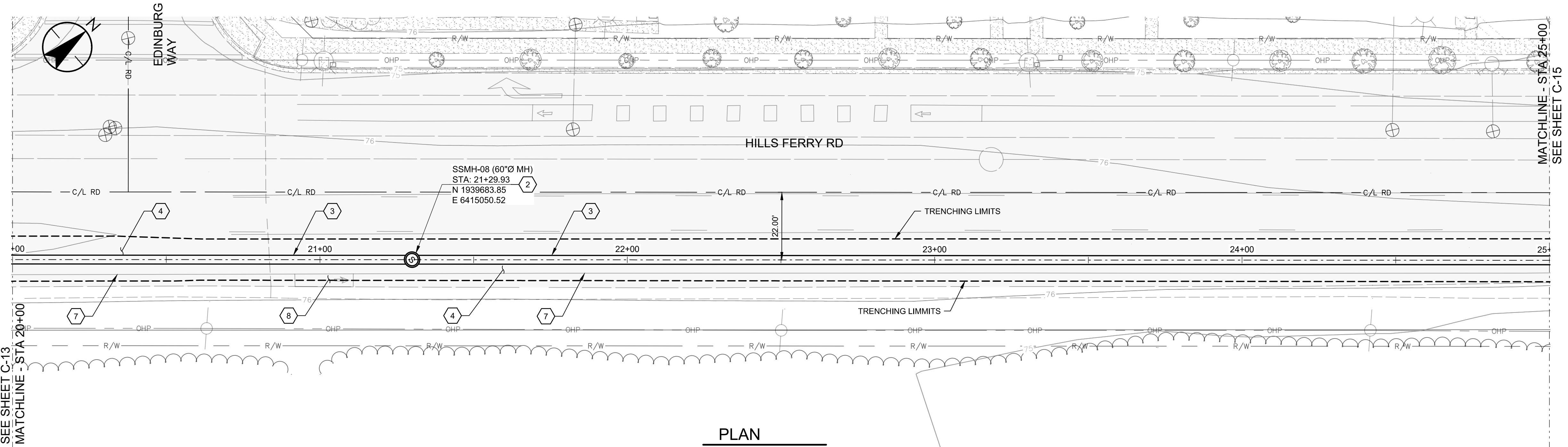
36" SS TRUNKLINE PLAN AND PROFILE STA 15+00 TO STA 20+00

Project No. 184031401

Revision Sheet 10 of 30

Scale

Drawing No. **C-13**



- GENERAL NOTES:**
- IT IS THE CONTRACTOR RESPONSIBILITY TO VERIFY ALL LOCATIONS OF EXISTING UTILITIES AND PROTECT IN PLACE. ALL EXISTING UTILITIES NOT DESIGNATED FOR RELOCATION.
- CONSTRUCTION NOTES:**
- CONSTRUCT 72" DIAMETER POLYURETHANE-LINED MANHOLE. SEE DETAIL 6-A ON SHEET GC-02
 - CONSTRUCT 60" DIAMETER POLYURETHANE-LINED MANHOLE. SEE DETAIL 6-A ON SHEET GC-02
 - CONSTRUCT I.P.S 36" DR26 HDPE PIPE. SEE TRENCH DETAIL SHEET GC-01
 - REMOVE AND REPLACE ASPHALT PAVING PER DETAIL 6-H ON SHEET GC-02
 - REMOVE AND RESET TRAFFIC SIGNS
 - REPLACE PAVEMENT MARKINGS IN KIND.
 - REPLACE SOLID WHITE LINE (50 MIL POLYUREA)
 - REPLACE BICYCLE LANE MARKING IN KIND
 - REMOVE EXISTING SEWER PIPE AND RE-GRADE DITCH (INSTALL PIPE PLUG PER DETAIL 2/TYP ON SHEET GC-02)
 - CONSTRUCT ~~72" DIAMETER POLYURETHANE-LINED MANHOLE. SEE DETAIL 6~~ **NOT USED**
 - CONSTRUCT CMP CULVERT AND HEADWALLS, SEE DETAIL ON SHEET C-31
 - REMOVE AND RESET EXISTING FENCE
 - REMOVE EXISTING MANHOLE (INSTALL PLUG PER DETAIL)
 - REPLACE DOUBLE YELLOW LINE 50 MILL POLYUREA AND RAISED PAVEMENT MARKER AT THE SAME LOCATION
 - CONSTRUCT ~~72" DIAMETER POLYURETHANE-LINED MANHOLE. SEE DETAIL 6~~ **NOT USED** (SEE SHEET C-33)
 - REMOVE EXISTING TREE
 - CONSTRUCT 72" FLAT TOP CONCRETE GATED MANHOLE. SEE SHEET GC-03
 - CONSTRUCT D.I.P.S 18" DR 26 HDPE SANITARY SEWER PIPE. SEE TRENCH DETAIL GC-02
 - CONSTRUCT D.I.P.S 24" DR 26 HDPE SANITARY SEWER PIPE. SEE TRENCH DETAIL SHEET GC-02
 - CONSTRUCT 72" DIAMETER STORM MANHOLE PER DETAIL 7-H ON SHEET GC-02
 - CONSTRUCT 24"x38" HERCP. SEE TRENCH SECTION DETAIL 7-C ON SHEET GC-02
 - CONSTRUCT 12" AWWA C-900 PVC STORM DRAIN FOREMAIN. SEE TRENCH SECTION 5-J ON SHEET GC-02
 - REMOVE EXISTING STORM DRAIN
 - REMOVE EXISTING 12" PVC STORM DRAIN FORCE MAIN.



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PHASE 2 DRAWING

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Client/Project

CITY OF NEWMAN

NEWMAN INFLUENT TRUNK SEWER

NEWMAN, CALIFORNIA

File Name: X31401-PLAN AND PROF

RG	FR	FR	2022.10.03
Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

Title

36" SS TRUNKLINE PLAN AND PROFILE STA 20+00 TO STA 25+00

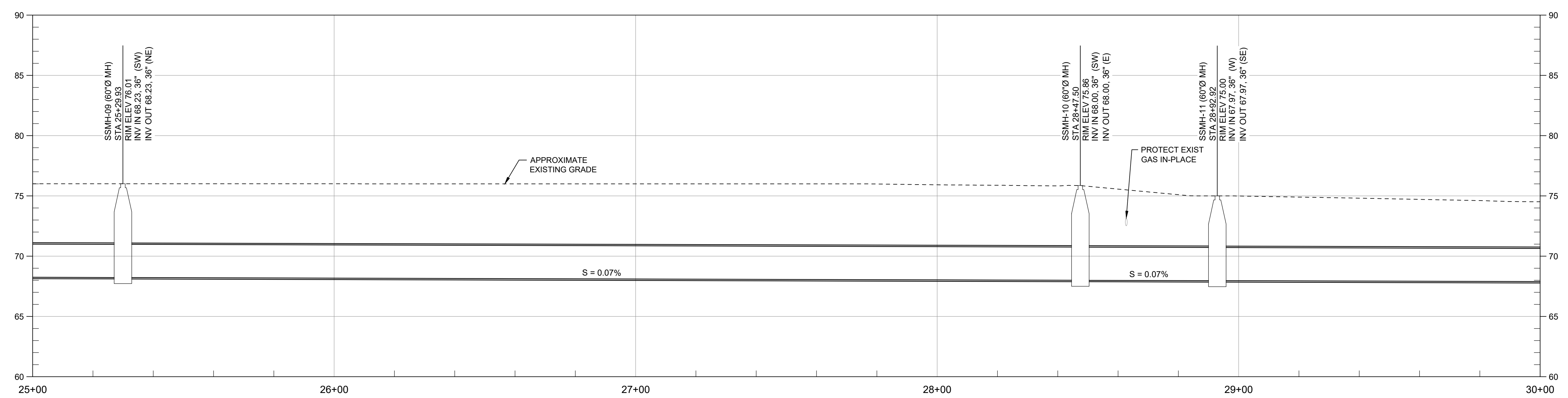
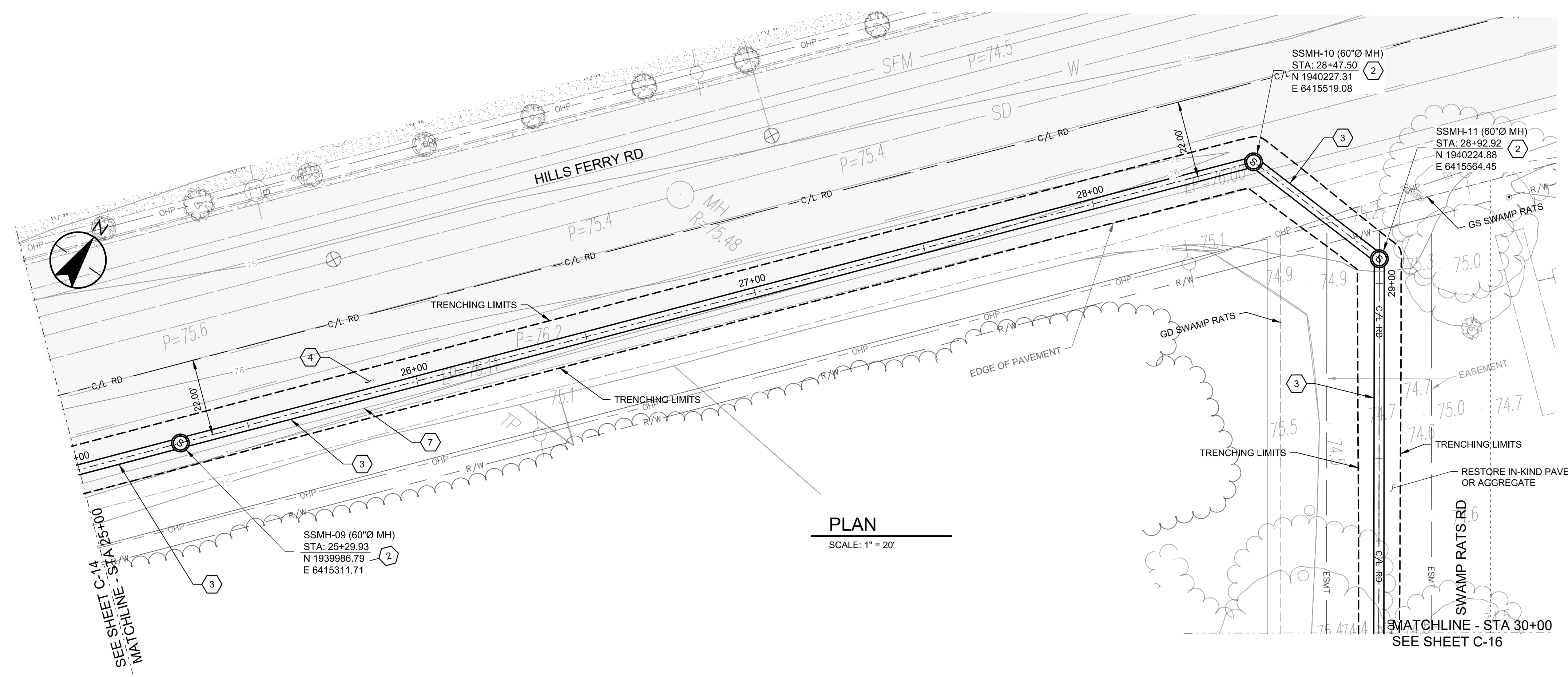
Project No. 184031401

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Revision Sheet Drawing No.

11 of 30 **C-14**

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- GENERAL NOTES:**
- IT IS THE CONTRACTOR RESPONSIBILITY TO VERIFY ALL LOCATIONS OF EXISTING UTILITIES AND PROTECT IN PLACE ALL EXISTING UTILITIES NOT DESIGNATED FOR RELOCATION.
- CONSTRUCTION NOTES:**
- CONSTRUCT 72" DIAMETER POLYURETHANE-LINED MANHOLE. SEE DETAIL 6-A ON SHEET GC-02
 - CONSTRUCT 60" DIAMETER POLYURETHANE-LINED MANHOLE. SEE DETAIL 6-A ON SHEET GC-02
 - CONSTRUCT I.P.S 36" DR26 HDPE PIPE. SEE TRENCH DETAIL SHEET GC-01
 - REMOVE AND REPLACE ASPHALT PAVING PER DETAIL 6-H ON SHEET GC-02
 - REMOVE AND RESET TRAFFIC SIGNS
 - REPLACE PAVEMENT MARKINGS IN KIND.
 - REPLACE SOLID WHITE LINE (50 MIL POLYUREA)
 - REPLACE BICYCLE LANE MARKING IN KIND
 - REMOVE EXISTING SEWER PIPE AND RE-GRADE DITCH (INSTALL PIPE PLUG PER DETAIL 2/TYP ON SHEET GC-02)
 - CONSTRUCT ~~YURETHANE LINE MANHOLE~~ **NOT USED** SEE DETAIL 6
 - CONSTRUCT CMP CULVERT AND HEADWALLS, SEE DETAIL ON SHEET C-31
 - REMOVE AND RESET EXISTING FENCE
 - REMOVE EXISTING MANHOLE (INSTALL PLUG PER DETAIL)
 - REPLACE DOUBLE YELLOW LINE 50 MIL POLYUREA AND RAISED PAVEMENT MARKER AT THE SAME LOCATION
 - CONSTRUCT ~~NOT USED~~ SEE SHEET C-33
 - REMOVE EXISTING TREE
 - CONSTRUCT 72" FLAT TOP CONCRETE GATED MANHOLE. SEE SHEET GC-03
 - CONSTRUCT D.I.P.S 18" DR 26 HDPE SANITARY SEWER PIPE. SEE TRENCH DETAIL GC-02
 - CONSTRUCT D.I.P.S 24" DR 26 HDPE SANITARY SEWER PIPE. SEE TRENCH DETAIL SHEET GC-02
 - CONSTRUCT 72" DIAMETER STORM MANHOLE PER DETAIL 7-H ON SHEET GC-02
 - CONSTRUCT 24"x38" HERCP. SEE TRENCH SECTION DETAIL 7-C ON SHEET GC-02
 - CONSTRUCT 12" AWWA C-900 PVC STORM DRAIN FOREMAIN. SEE TRENCH SECTION 5-J ON SHEET GC-02
 - REMOVE EXISTING STORM DRAIN
 - REMOVE EXISTING 12" PVC STORM DRAIN FORCE MAIN.



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NEWMAN INFLUENT TRUNK SEWER

NEWMAN, CALIFORNIA

File Name: X31401-PLAN AND PROF

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Title

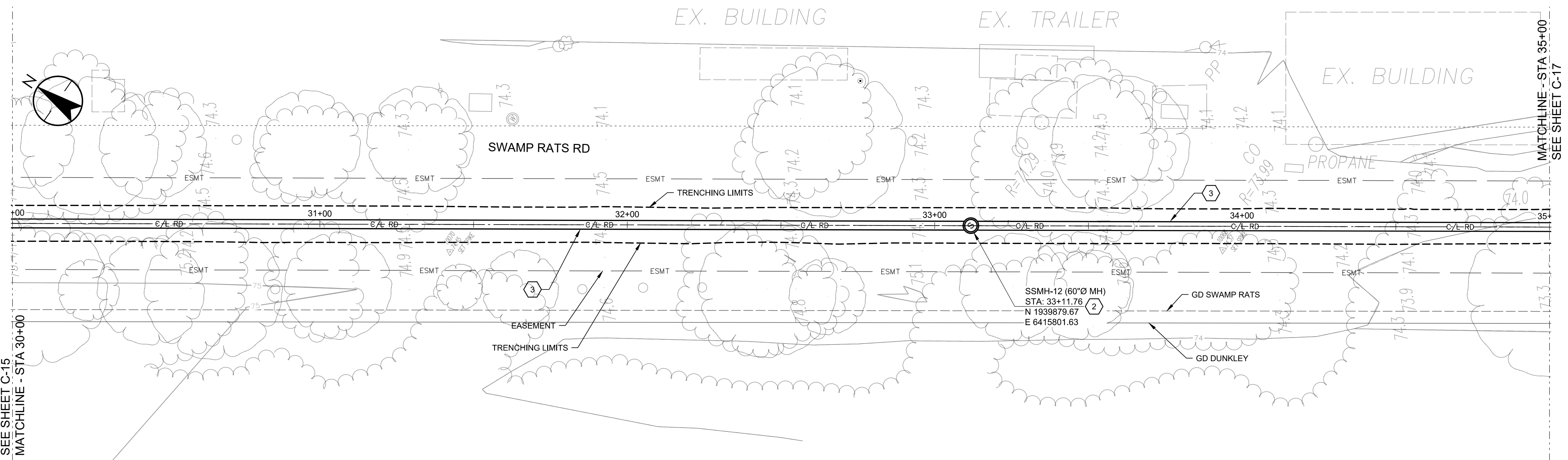
36" SS TRUNKLINE PLAN AND PROFILE STA 24+50 TO STA 30+00

Project No. 184031401

Scale _____

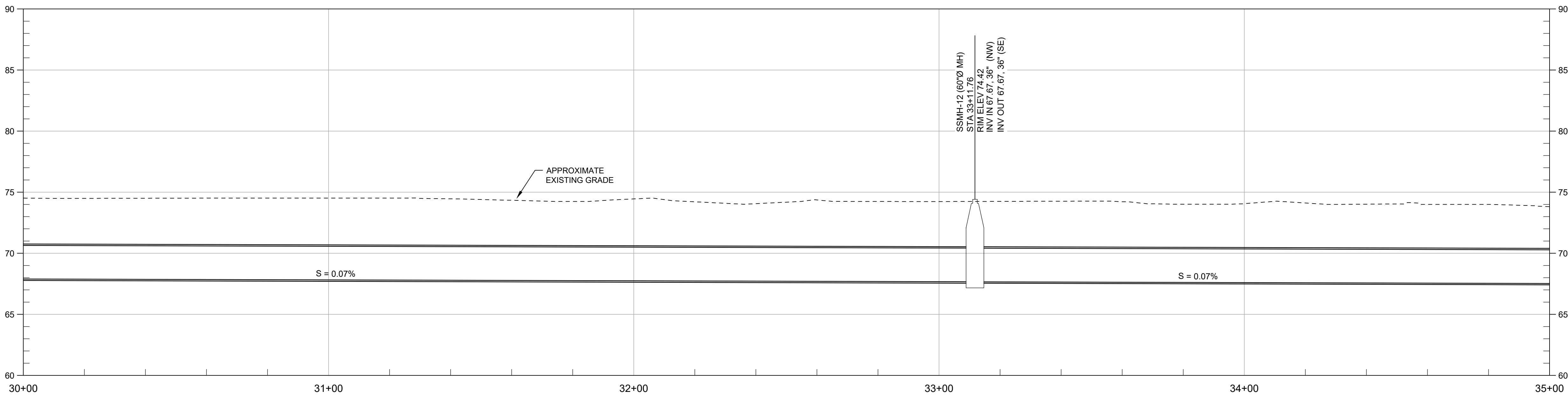
Revision Sheet Drawing No.

12 of 30 **C-15**



PLAN

SCALE: 1" = 20'



PROFILE

SCALE: HORIZ 1" = 20', VERT 1" = 5'

- GENERAL NOTES:**
- IT IS THE CONTRACTOR RESPONSIBILITY TO VERIFY ALL LOCATIONS OF EXISTING UTILITIES AND PROTECT IN PLACE ALL EXISTING UTILITIES NOT DESIGNATED FOR RELOCATION.
- CONSTRUCTION NOTES:**
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 - CONSTRUCT 60" DIAMETER POLYURETHANE-LINED MANHOLE. SEE DETAIL 6-A ON SHEET GC-02
 - CONSTRUCT I.P.S 36" DR26 HDPE PIPE. SEE TRENCH DETAIL SHEET GC-01
 - REMOVE AND REPLACE ASPHALT PAVING PER DETAIL 6-H ON SHEET GC-02
 - REMOVE AND RESET TRAFFIC SIGNS
 - REPLACE PAVEMENT MARKINGS IN KIND.
 - REPLACE SOLID WHITE LINE (50 MIL POLYUREA)
 - REPLACE BICYCLE LANE MARKING IN KIND
 - REMOVE EXISTING SEWER PIPE AND RE-GRADE DITCH (INSTALL PIPE PLUG PER DETAIL 2/TYP ON SHEET GC-02)
 - CONSTRUCT ~~72" DIAMETER POLYURETHANE-LINED MANHOLE~~ **NOT USED** SEE DETAIL 6
 - CONSTRUCT CMP CULVERT AND HEADWALLS, SEE DETAIL ON SHEET C-31
 - REMOVE AND RESET EXISTING FENCE
 - REMOVE EXISTING MANHOLE (INSTALL PLUG PER DETAIL)
 - REPLACE DOUBLE YELLOW LINE 50 MILL POLYUREA AND RAISED PAVEMENT MARKER AT THE SAME LOCATION
 - CONSTRUCT ~~72" DIAMETER POLYURETHANE-LINED MANHOLE~~ **NOT USED** SEE SHEET C-33
 - REMOVE EXISTING TREE
 - CONSTRUCT 72" FLAT TOP CONCRETE GATED MANHOLE. SEE SHEET GC-03
 - CONSTRUCT D.I.P.S 18" DR 26 HDPE SANITARY SEWER PIPE. SEE TRENCH DETAIL SHEET GC-02
 - CONSTRUCT D.I.P.S 24" DR 26 HDPE SANITARY SEWER PIPE. SEE TRENCH DETAIL SHEET GC-02
 - CONSTRUCT 72" DIAMETER STORM MANHOLE PER DETAIL 7-H ON SHEET GC-02
 - CONSTRUCT 24"x38" HERCP. SEE TRENCH SECTION DETAIL 7-C ON SHEET GC-02
 - CONSTRUCT 12" AWWA C-900 PVC STORM DRAIN FOREMAIN. SEE TRENCH SECTION 5-J ON SHEET GC-02
 - REMOVE EXISTING STORM DRAIN
 - REMOVE EXISTING 12" PVC STORM DRAIN FORCE MAIN.



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PHASE 2 DRAWING

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NEWMAN, CALIFORNIA

File Name: X31401-PLAN AND PROF

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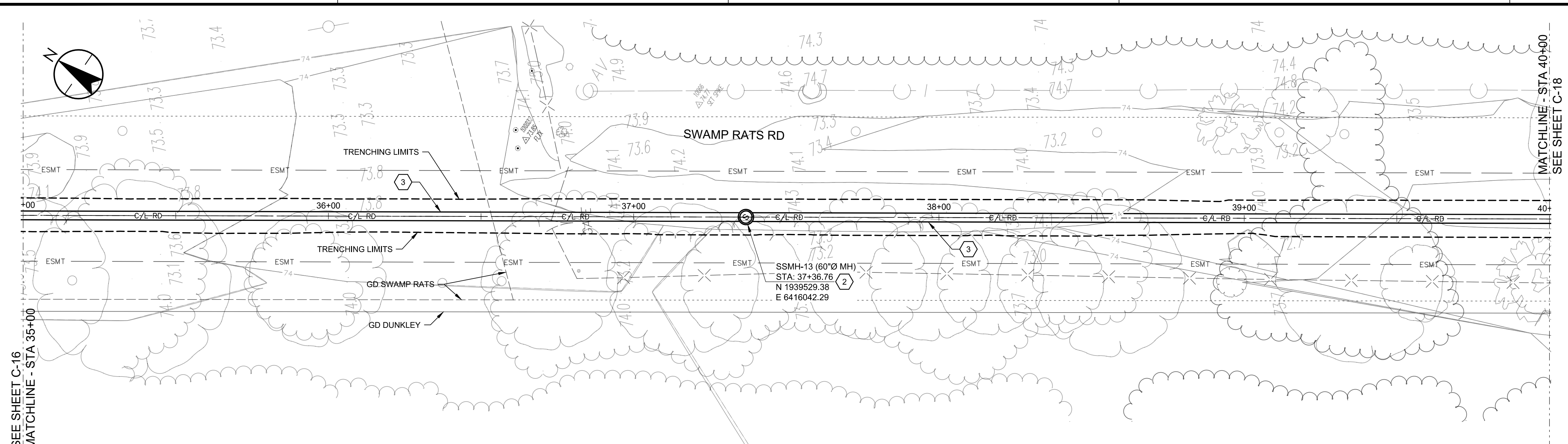
36" SS TRUNKLINE PLAN AND PROFILE STA 30+00 TO STA 35+00

Project No. 184031401

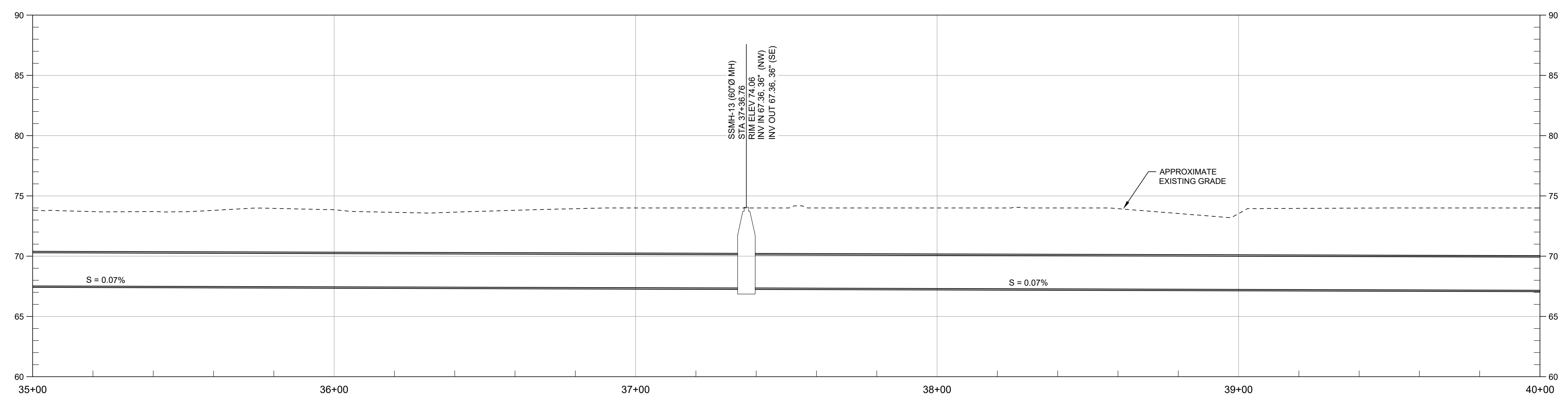
Scale _____

Revision Sheet Drawing No.

13 of 30 **C-16**



PLAN
SCALE: 1" = 20'



PROFILE
SCALE: HORZ 1" = 20', VERT 1" = 5'

- GENERAL NOTES:**
- IT IS THE CONTRACTOR RESPONSIBILITY TO VERIFY ALL LOCATIONS OF EXISTING UTILITIES AND PROTECT IN PLACE ALL EXISTING UTILITIES NOT DESIGNATED FOR RELOCATION.
- CONSTRUCTION NOTES:**
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 - CONSTRUCT 60" DIAMETER POLYURETHANE-LINED MANHOLE. SEE DETAIL 6-A ON SHEET GC-02
 - CONSTRUCT I.P.S 36" DR26 HDPE PIPE. SEE TRENCH DETAIL SHEET GC-01
 - REMOVE AND REPLACE ASPHALT PAVING PER DETAIL 6-H ON SHEET GC-02
 - REMOVE AND RESET TRAFFIC SIGNS
 - REPLACE PAVEMENT MARKINGS IN KIND.
 - REPLACE SOLID WHITE LINE (50 MILL POLYUREA)
 - REPLACE BICYCLE LANE MARKING IN KIND
 - REMOVE EXISTING SEWER PIPE AND RE-GRADE DITCH (INSTALL PIPE PLUG PER DETAIL 2/TYP ON SHEET GC-02)
 - ~~CONSTRUCT 72" DIAMETER POLYURETHANE-LINED MANHOLE. SEE DETAIL 6~~ **NOT USED**
 - CONSTRUCT CMP CULVERT AND HEADWALLS, SEE DETAIL ON SHEET C-31
 - REMOVE AND RESET EXISTING FENCE
 - REMOVE EXISTING MANHOLE (INSTALL PLUG PER DETAIL)
 - REPLACE DOUBLE YELLOW LINE 50 MILL POLYUREA AND RAISED PAVEMENT MARKER AT THE SAME LOCATION
 - ~~CONSTRUCT 72" DIAMETER POLYURETHANE-LINED MANHOLE. SEE SHEET C-33~~ **NOT USED**
 - REMOVE EXISTING TREE
 - CONSTRUCT 72" FLAT TOP CONCRETE GATED MANHOLE. SEE SHEET GC-03
 - CONSTRUCT D.I.P.S 18" DR 26 HDPE SANITARY SEWER PIPE. SEE TRENCH DETAIL GC-02
 - CONSTRUCT D.I.P.S 24" DR 26 HDPE SANITARY SEWER PIPE. SEE TRENCH DETAIL SHEET GC-02
 - CONSTRUCT 72" DIAMETER STORM MANHOLE PER DETAIL 7-H ON SHEET GC-02
 - CONSTRUCT 24"x38" HERCP. SEE TRENCH SECTION DETAIL 7-C ON SHEET GC-02
 - CONSTRUCT 12" AWWA C-900 PVC STORM DRAIN FORCEMAIN. SEE TRENCH SECTION 5-J ON SHEET GC-02
 - REMOVE EXISTING STORM DRAIN
 - REMOVE EXISTING 12" PVC STORM DRAIN FORCE MAIN.



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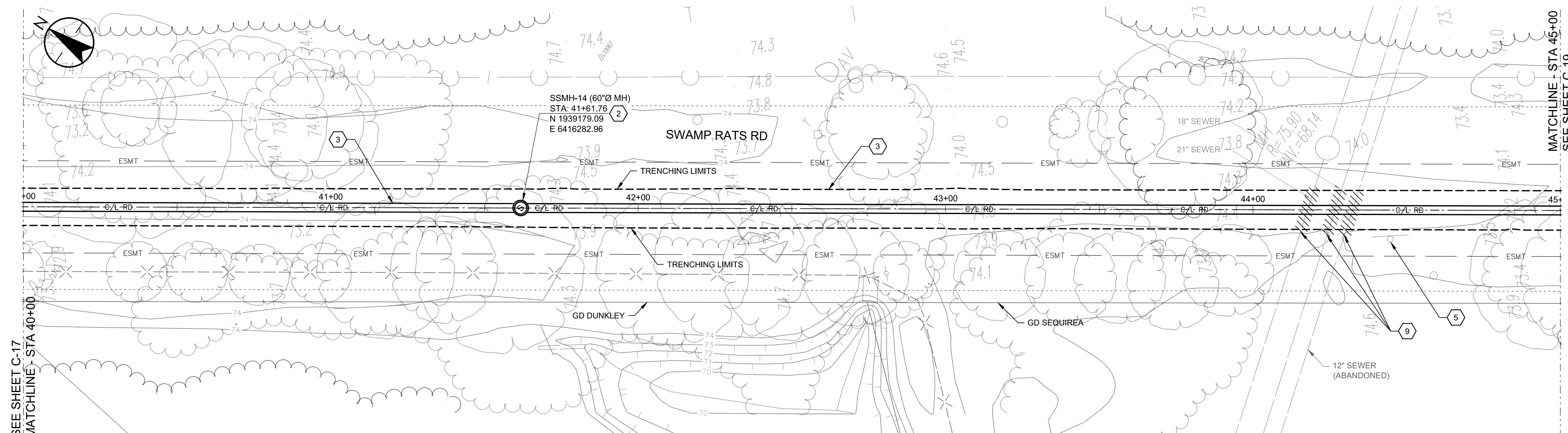
36" SS TRUNKLINE PLAN AND PROFILE STA 35+00 TO STA 40+00

Project No. 184031401

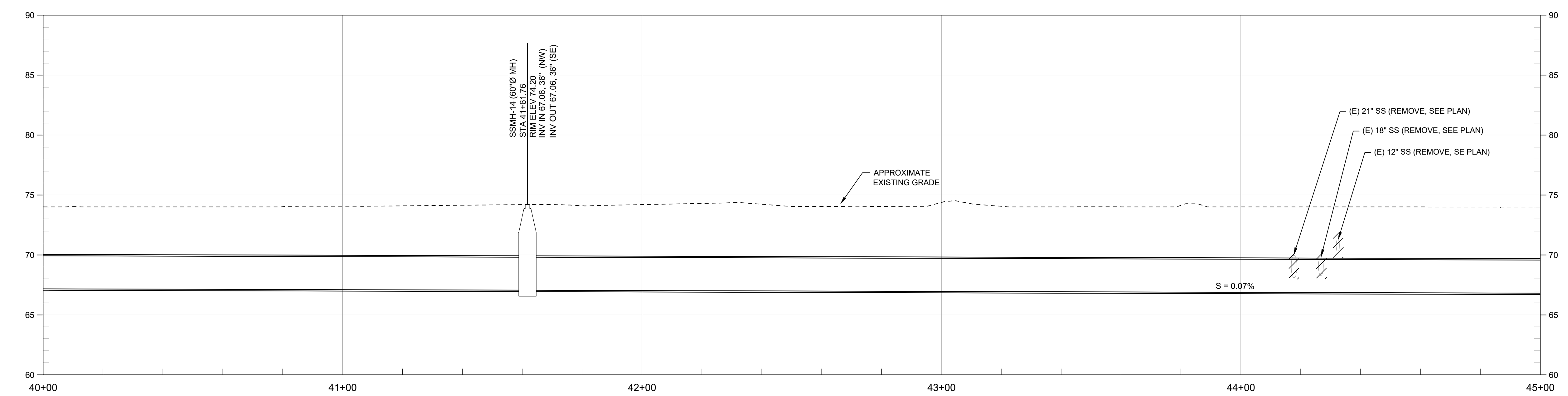
Scale _____

Revision Sheet Drawing No.

14 of 30 **C-17**



PLAN
SCALE: 1" = 20'



PROFILE
SCALE: HORZ 1" = 20', VERT 1" = 5'

- GENERAL NOTES:**
- IT IS THE CONTRACTOR RESPONSIBILITY TO VERIFY ALL LOCATIONS OF EXISTING UTILITIES AND PROTECT IN PLACE ALL EXISTING UTILITIES NOT DESIGNATED FOR RELOCATION.
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 - CONSTRUCT 60" DIAMETER POLYURETHANE-LINED MANHOLE. SEE DETAIL 6-A ON SHEET GC-02
 - CONSTRUCT I.P.S 36" DR26 HDPE PIPE. SEE TRENCH DETAIL SHEET GC-01
 - REMOVE AND REPLACE ASPHALT PAVING PER DETAIL 6-H ON SHEET GC-02
 - REMOVE AND RESET TRAFFIC SIGNS
 - REPLACE PAVEMENT MARKINGS IN KIND.
 - REPLACE SOLID WHITE LINE (50 MIL POLYUREA)
 - REPLACE BICYCLE LANE MARKING IN KIND
 - REMOVE EXISTING SEWER PIPE AND RE-GRADE DITCH (INSTALL PIPE PLUG PER DETAIL 2/TYP ON SHEET GC-02)
 - CONSTRUCT ~~YURETHANE LINE MANHOLE~~ **NOT USED** SEE DETAIL 6
 - CONSTRUCT CMP CULVERT AND HEADWALLS, SEE DETAIL ON SHEET C-31
 - REMOVE AND RESET EXISTING FENCE
 - REMOVE EXISTING MANHOLE (INSTALL PLUG PER DETAIL)
 - REPLACE DOUBLE YELLOW LINE 50 MILL POLYUREA AND RAISED PAVEMENT MARKER AT THE SAME LOCATION
 - CONSTRUCT ~~SEE SHEET C-33~~ **NOT USED**
 - REMOVE EXISTING TREE
 - CONSTRUCT 72" FLAT TOP CONCRETE GATED MANHOLE. SEE SHEET GC-03
 - CONSTRUCT D.I.P.S 18" DR 26 HDPE SANITARY SEWER PIPE. SEE TRENCH DETAIL GC-02
 - CONSTRUCT D.I.P.S 24" DR 26 HDPE SANITARY SEWER PIPE. SEE TRENCH DETAIL SHEET GC-02
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 - REMOVE EXISTING STORM DRAIN
 - REMOVE EXISTING 12" PVC STORM DRAIN FORCE MAIN.



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NEWMAN, CALIFORNIA

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36" SS TRUNKLINE PLAN AND PROFILE STA 40+00 TO STA 45+00

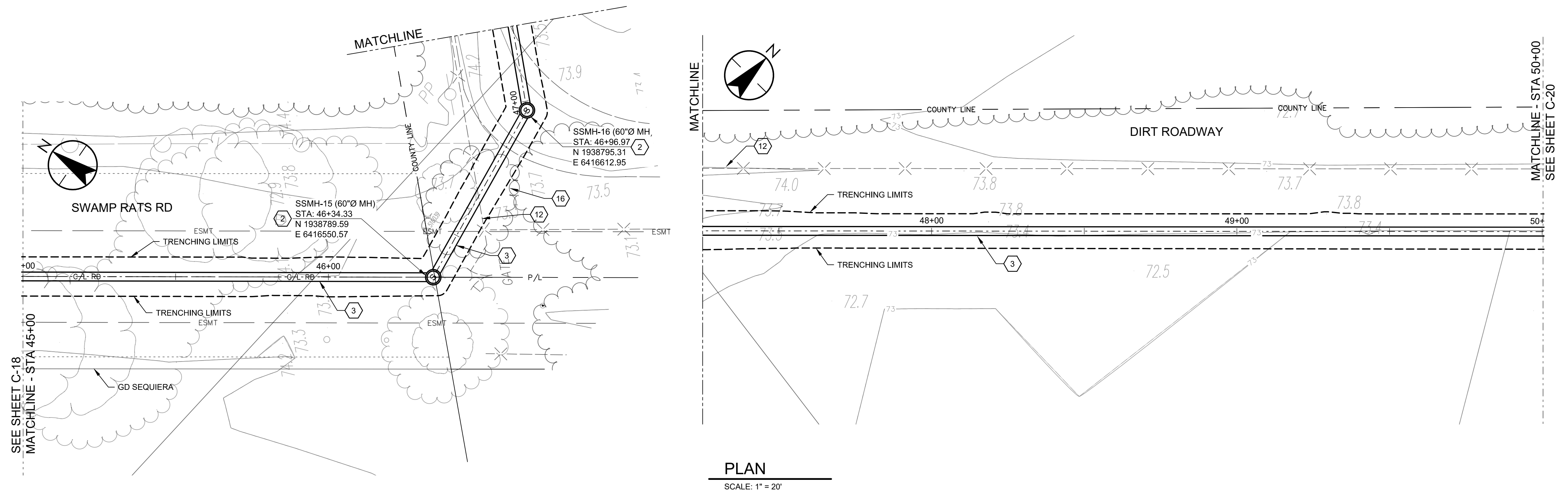
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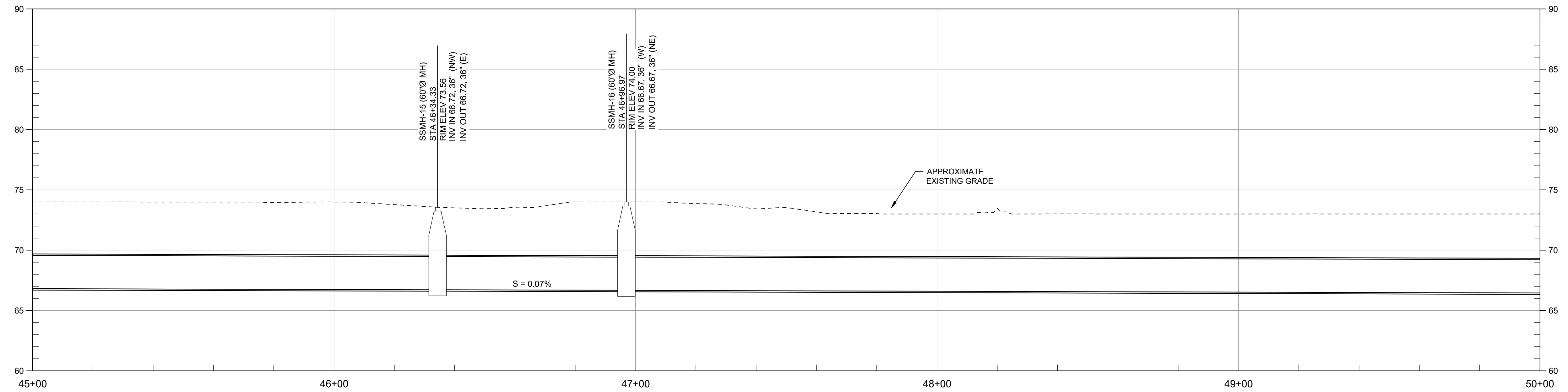
Revision Sheet Drawing No.

15 of 30 **C-18**

- GENERAL NOTES:**
- IT IS THE CONTRACTOR RESPONSIBILITY TO VERIFY ALL LOCATIONS OF EXISTING UTILITIES AND PROTECT IN PLACE ALL EXISTING UTILITIES NOT DESIGNATED FOR RELOCATION.
- CONSTRUCTION NOTES:**
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 - CONSTRUCT 60" DIAMETER POLYURETHANE-LINED MANHOLE. SEE DETAIL 6-A ON SHEET GC-02
 - CONSTRUCT I.P.S 36" DR 26 HDPE PIPE. SEE TRENCH DETAIL SHEET GC-01
 - REMOVE AND REPLACE ASPHALT PAVING PER DETAIL 6-H ON SHEET GC-02
 - REMOVE AND RESET TRAFFIC SIGNS
 - REPLACE PAVEMENT MARKINGS IN KIND.
 - REPLACE SOLID WHITE LINE (50 MIL POLYUREA)
 - REPLACE BICYCLE LANE MARKING IN KIND
 - REMOVE EXISTING SEWER PIPE AND RE-GRADE DITCH (INSTALL PIPE PLUG PER DETAIL 2/TYP ON SHEET GC-02)
 - CONSTRUCT ~~72" DIAMETER POLYURETHANE-LINED MANHOLE~~ **NOT USED** SEE DETAIL 6
 - CONSTRUCT CMP CULVERT AND HEADWALLS, SEE DETAIL ON SHEET C-31
 - REMOVE AND RESET EXISTING FENCE
 - REMOVE EXISTING MANHOLE (INSTALL PLUG PER DETAIL)
 - REPLACE DOUBLE YELLOW LINE 50 MIL POLYUREA AND RAISED PAVEMENT MARKER AT THE SAME LOCATION
 - CONSTRUCT ~~72" DIAMETER POLYURETHANE-LINED MANHOLE~~ **NOT USED** SEE SHEET C-33
 - REMOVE EXISTING TREE
 - CONSTRUCT 72" FLAT TOP CONCRETE GATED MANHOLE. SEE SHEET GC-03
 - CONSTRUCT D.I.P.S 18" DR 26 HDPE SANITARY SEWER PIPE. SEE TRENCH DETAIL GC-02
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 - REMOVE EXISTING STORM DRAIN
 - REMOVE EXISTING 12" PVC STORM DRAIN FORCE MAIN.



PLAN
SCALE: 1" = 20'



PROFILE
SCALE: HORZ 1" = 20', VERT 1" = 5'



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File Name: X31401-PLAN AND PROF

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**36" SS TRUNKLINE
PLAN AND PROFILE
STA 45+00 TO STA 50+00**

Project No. 184031401

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Revision Sheet Drawing No.

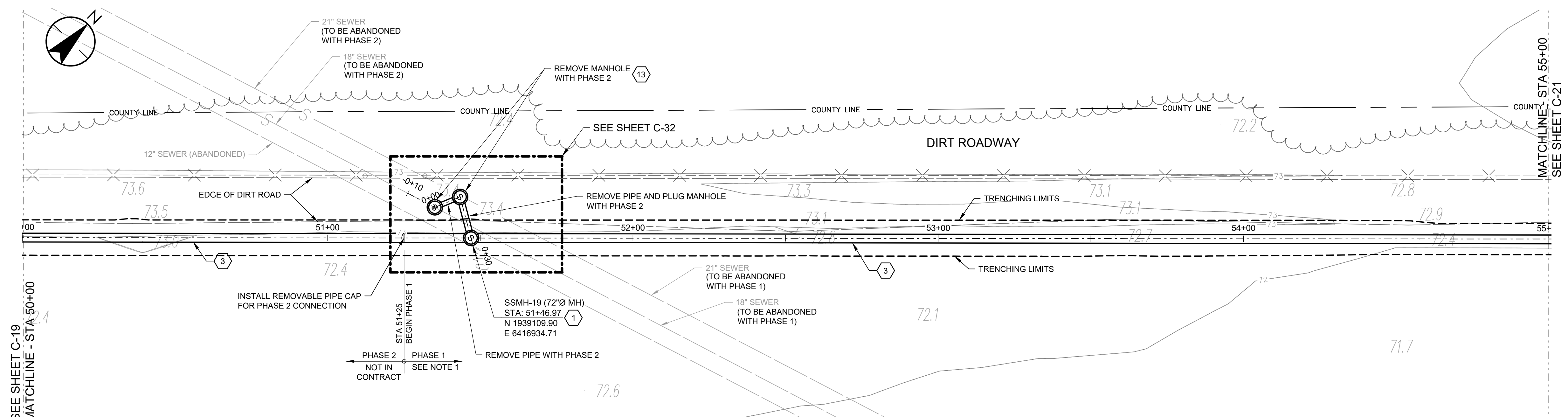
16 of 30 **C-19**

GENERAL NOTES:

- IT IS THE CONTRACTOR RESPONSIBILITY TO VERIFY ALL LOCATIONS OF EXISTING UTILITIES AND PROTECT IN PLACE ALL EXISTING UTILITIES NOT DESIGNATED FOR RELOCATION.

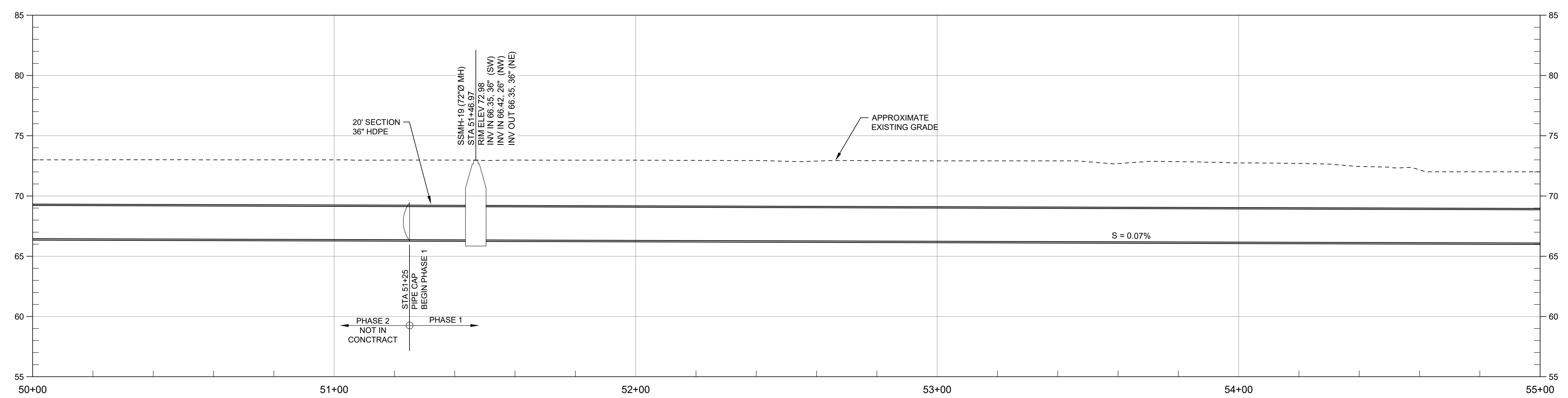
CONSTRUCTION NOTES:

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- REMOVE EXISTING STORM DRAIN
- REMOVE EXISTING 12" PVC STORM DRAIN FORCE MAIN.



NOTES:
1. REFER TO CONTRACT DOCUMENTS PART A.

PLAN
SCALE: 1" = 20'



PROFILE
SCALE: HORZ 1" = 20', VERT 1" = 5'

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Client/Project

CITY OF NEWMAN

NEWMAN INFLUENT TRUNK SEWER

NEWMAN, CALIFORNIA

File Name: X31401-PLAN AND PROF

RG	FR	FR	2022.10.03
Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

Title

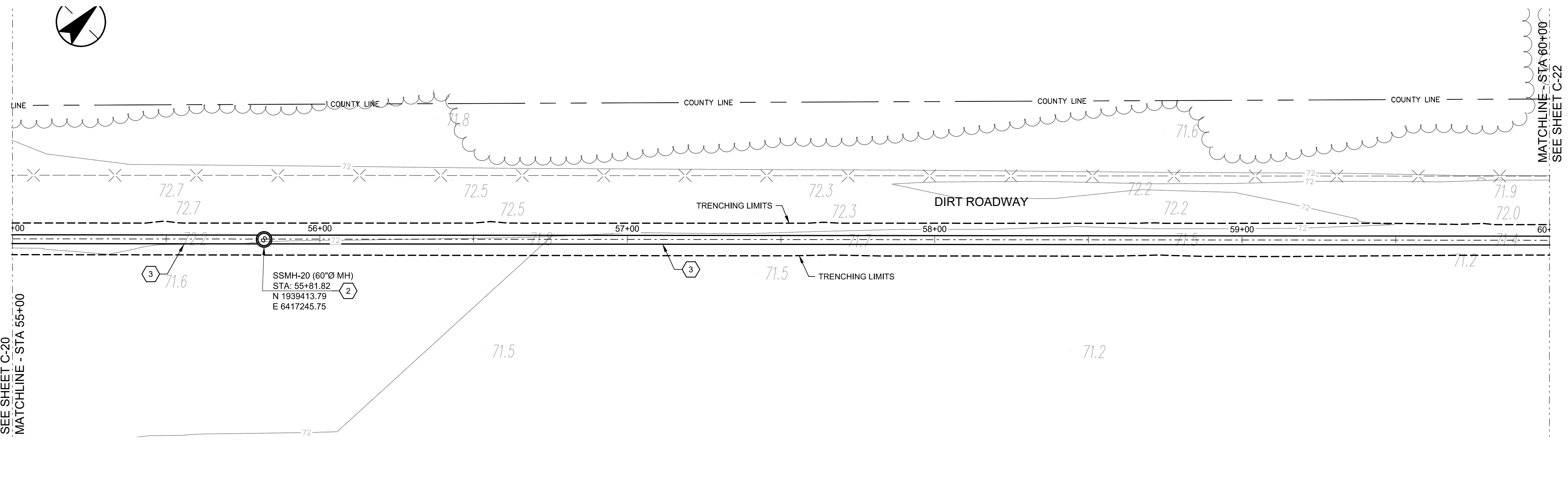
36" SS TRUNKLINE PLAN AND PROFILE STA 50+00 TO STA 55+00

Project No. 184031401

Scale _____

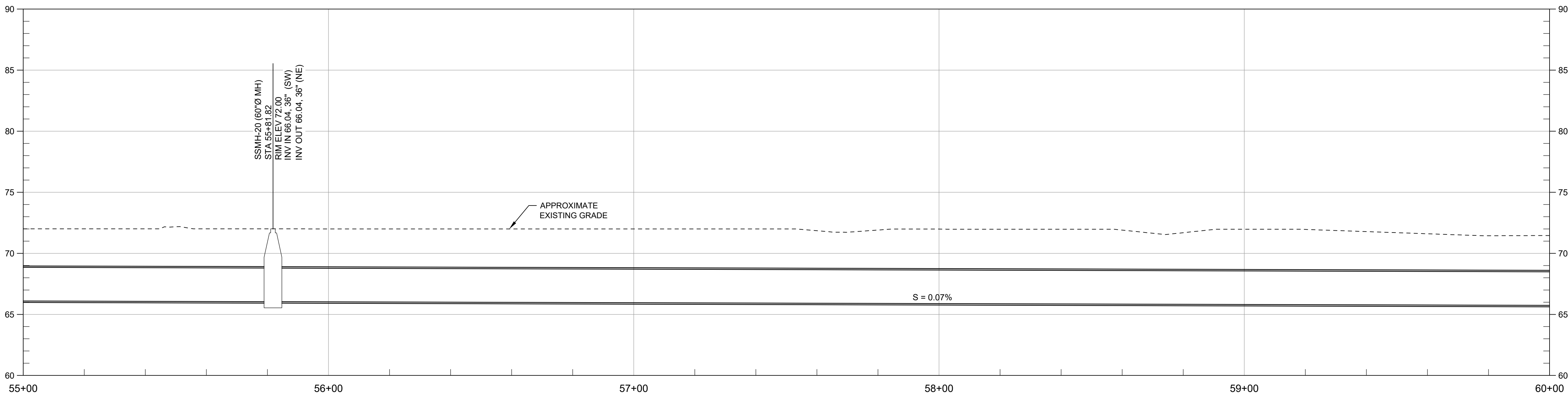
Revision Sheet 17 of 30

Drawing No. **C-20**



PLAN

SCALE: 1" = 20'



PROFILE

SCALE: HORZ 1" = 20', VERT 1" = 5'

- GENERAL NOTES:**
- IT IS THE CONTRACTOR RESPONSIBILITY TO VERIFY ALL LOCATIONS OF EXISTING UTILITIES AND PROTECT IN PLACE ALL EXISTING UTILITIES NOT DESIGNATED FOR RELOCATION.
- CONSTRUCTION NOTES:**
- CONSTRUCT 72" DIAMETER POLYURETHANE-LINED MANHOLE. SEE DETAIL 6-A ON SHEET GC-02
 - CONSTRUCT 60" DIAMETER POLYURETHANE-LINED MANHOLE. SEE DETAIL 6-A ON SHEET GC-02
 - CONSTRUCT I.P.S 36" DR26 HDPE PIPE. SEE TRENCH DETAIL SHEET GC-01
 - REMOVE AND REPLACE ASPHALT PAVING PER DETAIL 6-H ON SHEET GC-02
 - REMOVE AND RESET TRAFFIC SIGNS
 - REPLACE PAVEMENT MARKINGS IN KIND.
 - REPLACE SOLID WHITE LINE (50 MIL POLYUREA)
 - REPLACE BICYCLE LANE MARKING IN KIND
 - REMOVE EXISTING SEWER PIPE AND RE-GRADE DITCH (INSTALL PIPE PLUG PER DETAIL 2/TYP ON SHEET GC-02)
 - CONSTRUCT ~~72" DIAMETER POLYURETHANE-LINED MANHOLE. SEE DETAIL 6~~ **NOT USED**
 - CONSTRUCT CMP CULVERT AND HEADWALLS, SEE DETAIL ON SHEET C-31
 - REMOVE AND RESET EXISTING FENCE
 - REMOVE EXISTING MANHOLE (INSTALL PLUG PER DETAIL)
 - REPLACE DOUBLE YELLOW LINE 50 MILL POLYUREA AND RAISED PAVEMENT MARKER AT THE SAME LOCATION
 - CONSTRUCT ~~72" DIAMETER POLYURETHANE-LINED MANHOLE. SEE DETAIL 6~~ **NOT USED** SEE SHEET C-33
 - REMOVE EXISTING TREE
 - CONSTRUCT 72" FLAT TOP CONCRETE GATED MANHOLE. SEE SHEET GC-03
 - CONSTRUCT D.I.P.S 18" DR 26 HDPE SANITARY SEWER PIPE. SEE TRENCH DETAIL GC-02
 - CONSTRUCT D.I.P.S 24" DR 26 HDPE SANITARY SEWER PIPE. SEE TRENCH DETAIL SHEET GC-02
 - CONSTRUCT 72" DIAMETER STORM MANHOLE PER DETAIL 7-H ON SHEET GC-02
 - CONSTRUCT 24"x38" HERCP. SEE TRENCH SECTION DETAIL 7-C ON SHEET GC-02
 - CONSTRUCT 12" AWWA C-900 PVC STORM DRAIN FOREMAIN. SEE TRENCH SECTION 5-J ON SHEET GC-02
 - REMOVE EXISTING STORM DRAIN
 - REMOVE EXISTING 12" PVC STORM DRAIN FORCE MAIN.



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NEWMAN INFLUENT TRUNK SEWER

NEWMAN, CALIFORNIA

File Name: X31401-PLAN AND PROF

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Title

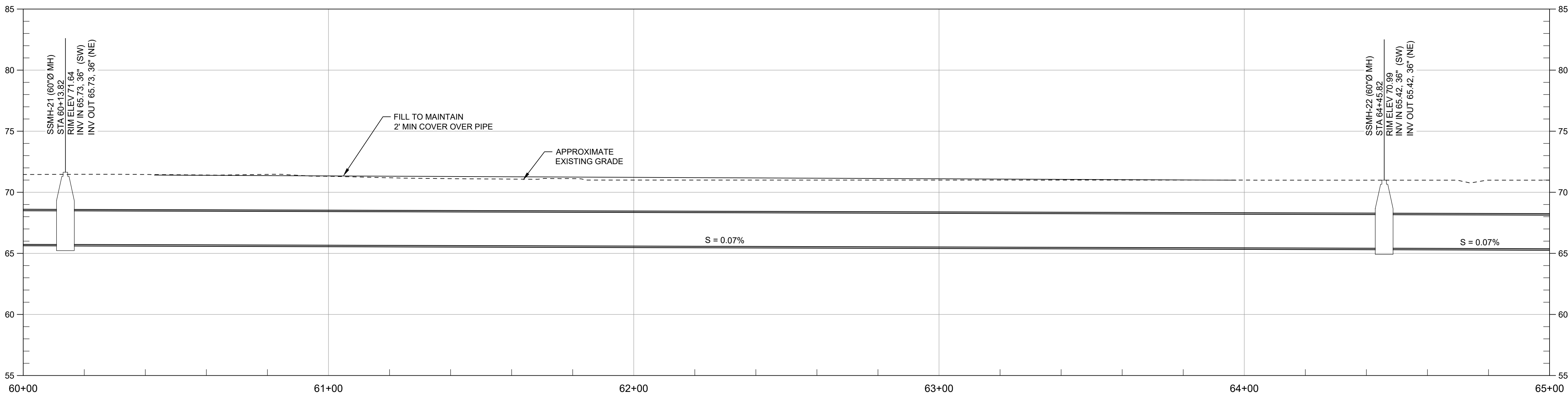
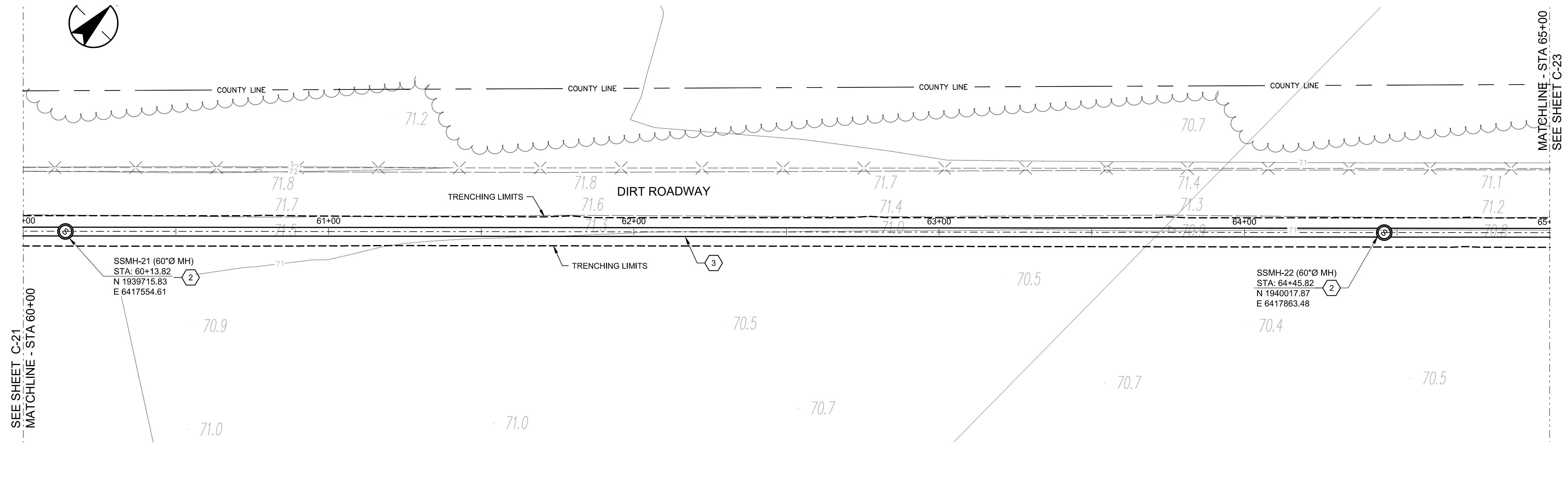
**36" SS TRUNKLINE
PLAN AND PROFILE
STA 55+00 TO STA 60+00**

Project No. 184031401

Scale _____

Revision Sheet Drawing No.

18 of 30 **C-21**



- GENERAL NOTES:**
- IT IS THE CONTRACTOR RESPONSIBILITY TO VERIFY ALL LOCATIONS OF EXISTING UTILITIES AND PROTECT IN PLACE ALL EXISTING UTILITIES NOT DESIGNATED FOR RELOCATION.
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 - CONSTRUCT I.P.S 36" DR26 HDPE PIPE. SEE TRENCH DETAIL SHEET GC-01
 - REMOVE AND REPLACE ASPHALT PAVING PER DETAIL 6-H ON SHEET GC-02
 - REMOVE AND RESET TRAFFIC SIGNS
 - REPLACE PAVEMENT MARKINGS IN KIND.
 - REPLACE SOLID WHITE LINE (50 MIL POLYUREA)
 - REPLACE BICYCLE LANE MARKING IN KIND
 - REMOVE EXISTING SEWER PIPE AND RE-GRADE DITCH (INSTALL PIPE PLUG PER DETAIL 2/TYP ON SHEET GC-02)
 - CONSTRUCT ~~YURETHANE LINE MANHOLE~~ **NOT USED** SEE DETAIL 6
 - CONSTRUCT CMP CULVERT AND HEADWALLS, SEE DETAIL ON SHEET C-31
 - REMOVE AND RESET EXISTING FENCE
 - REMOVE EXISTING MANHOLE (INSTALL PLUG PER DETAIL)
 - REPLACE DOUBLE YELLOW LINE 50 MILL POLYUREA AND RAISED PAVEMENT MARKER AT THE SAME LOCATION
 - CONSTRUCT ~~YURETHANE LINE MANHOLE~~ **NOT USED** SEE SHEET C-33
 - REMOVE EXISTING TREE
 - CONSTRUCT 72" FLAT TOP CONCRETE GATED MANHOLE. SEE SHEET GC-03
 - CONSTRUCT D.I.P.S 18" DR 26 HDPE SANITARY SEWER PIPE. SEE TRENCH DETAIL GC-02
 - CONSTRUCT D.I.P.S 24" DR 26 HDPE SANITARY SEWER PIPE. SEE TRENCH DETAIL SHEET GC-02
 - CONSTRUCT 72" DIAMETER STORM MANHOLE PER DETAIL 7-H ON SHEET GC-02
 - CONSTRUCT 24"x38" HERCP. SEE TRENCH SECTION DETAIL 7-C ON SHEET GC-02
 - CONSTRUCT 12" AWWA C-900 PVC STORM DRAIN FOREMAIN. SEE TRENCH SECTION 5-J ON SHEET GC-02
 - REMOVE EXISTING STORM DRAIN
 - REMOVE EXISTING 12" PVC STORM DRAIN FORCE MAIN.



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NEWMAN, CALIFORNIA

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Title

**36" SS TRUNKLINE
PLAN AND PROFILE
STA 60+50 TO STA 65+00**

Project No. 184031401

Scale _____

Revision Sheet Drawing No.

19 of 30 **C-22**

GENERAL NOTES:

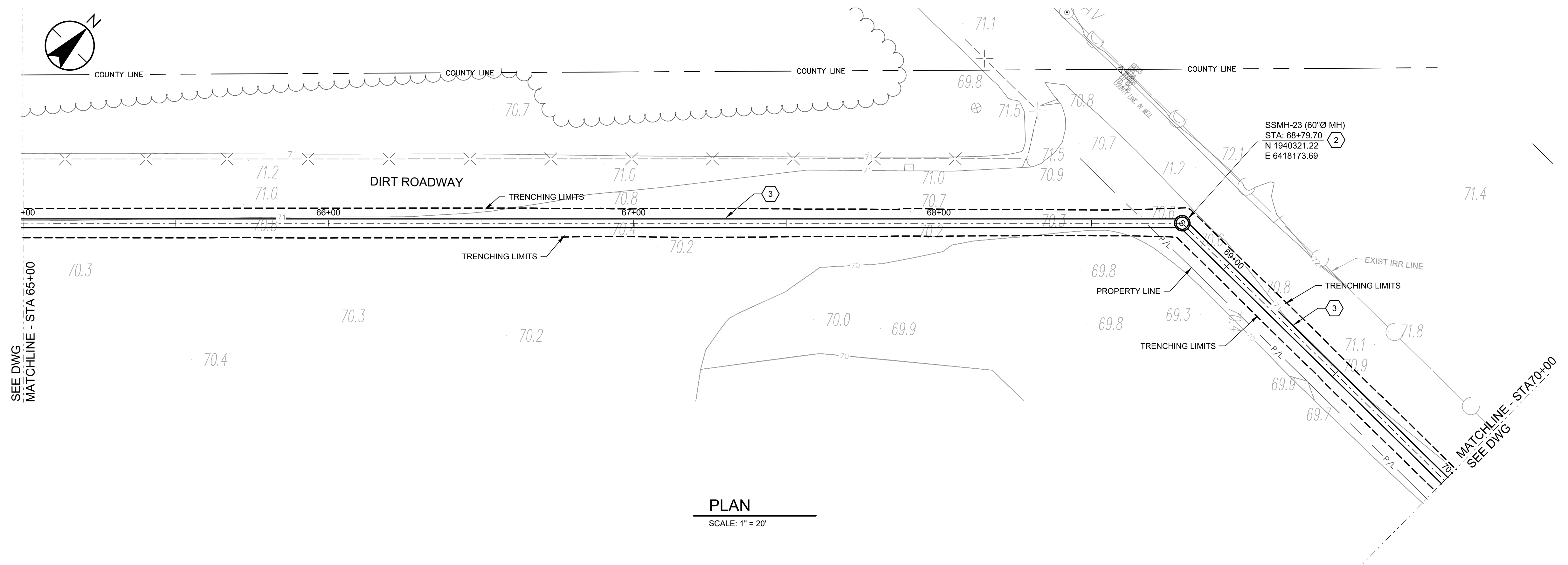
1. IT IS THE CONTRACTOR RESPONSIBILITY TO VERIFY ALL LOCATIONS OF EXISTING UTILITIES AND PROTECT IN PLACE ALL EXISTING UTILITIES NOT DESIGNATED FOR RELOCATION.

CONSTRUCTION NOTES:

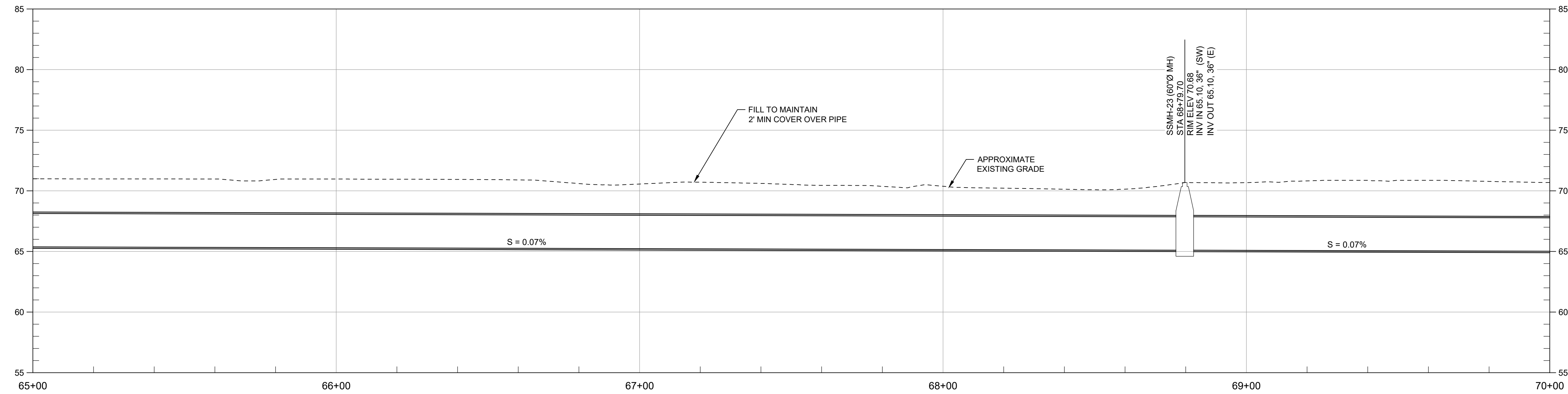
1. CONSTRUCT 72" DIAMETER POLYURETHANE-LINED MANHOLE. SEE DETAIL 6-A ON SHEET GC-02
2. CONSTRUCT 60" DIAMETER POLYURETHANE-LINED MANHOLE. SEE DETAIL 6-A ON SHEET GC-02
3. CONSTRUCT I.P.S 36" DR26 HDPE PIPE. SEE TRENCH DETAIL SHEET GC-01
4. REMOVE AND REPLACE ASPHALT PAVING PER DETAIL 6-H ON SHEET GC-02
5. REMOVE AND RESET TRAFFIC SIGNS
6. REPLACE PAVEMENT MARKINGS IN KIND.
7. REPLACE SOLID WHITE LINE (50 MIL POLYUREA)
8. REPLACE BICYCLE LANE MARKING IN KIND
9. REMOVE EXISTING SEWER PIPE AND RE-GRADE DITCH (INSTALL PIPE PLUG PER DETAIL 2/TYP ON SHEET GC-02)
10. CONSTRUCT ~~72" DIAMETER POLYURETHANE-LINED MANHOLE~~ **NOT USED** SEE DETAIL 6
11. CONSTRUCT CMP CULVERT AND HEADWALLS, SEE DETAIL ON SHEET C-31
12. REMOVE AND RESET EXISTING FENCE
13. REMOVE EXISTING MANHOLE (INSTALL PLUG PER DETAIL)
14. REPLACE DOUBLE YELLOW LINE 50 MILL POLYUREA AND RAISED PAVEMENT MARKER AT THE SAME LOCATION
15. ~~CONSTRUCT 72" DIAMETER POLYURETHANE-LINED MANHOLE~~ **NOT USED** SEE SHEET C-33
16. REMOVE EXISTING TREE
17. CONSTRUCT 72" FLAT TOP CONCRETE GATED MANHOLE. SEE SHEET GC-03
18. CONSTRUCT D.I.P.S 18" DR 26 HDPE SANITARY SEWER PIPE. SEE TRENCH DETAIL GC-02
19. CONSTRUCT D.I.P.S 24" DR 26 HDPE SANITARY SEWER PIPE. SEE TRENCH DETAIL SHEET GC-02
20. CONSTRUCT 72" DIAMETER STORM MANHOLE PER DETAIL 7-H ON SHEET GC-02
21. CONSTRUCT 24"x38" HERCP. SEE TRENCH SECTION DETAIL 7-C ON SHEET GC-02
22. CONSTRUCT 12" AWWA C-900 PVC STORM DRAIN FOREMAIN. SEE TRENCH SECTION 5-J ON SHEET GC-02
23. REMOVE EXISTING STORM DRAIN
24. REMOVE EXISTING 12" PVC STORM DRAIN FORCE MAIN.



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PLAN
SCALE: 1" = 20'



PROFILE
SCALE: HORIZ 1" = 20', VERT 1" = 5'

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NEWMAN, CALIFORNIA

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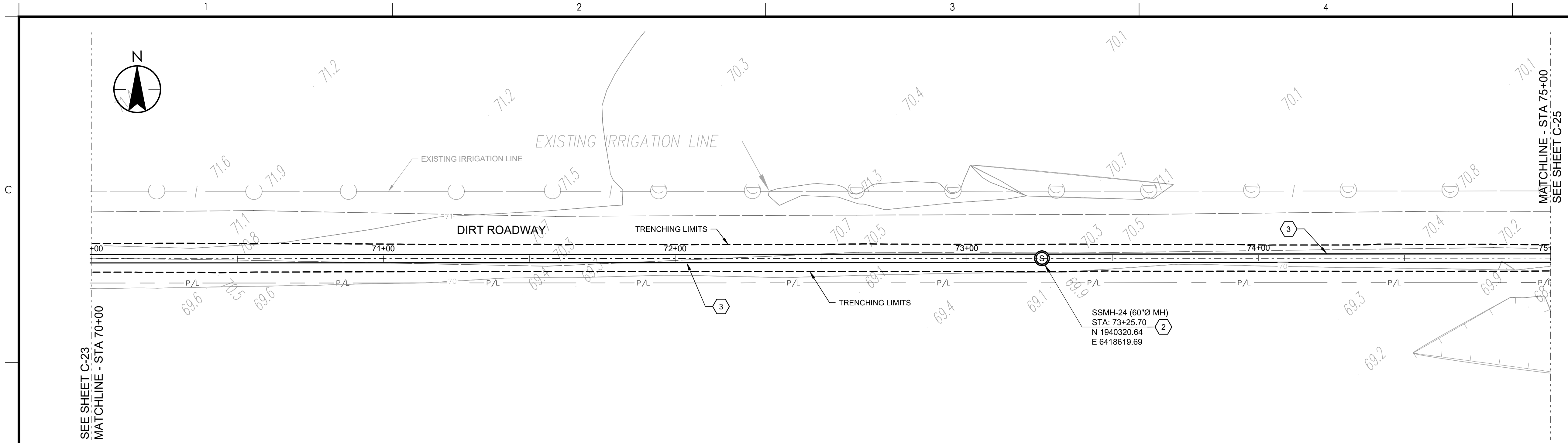
**36" SS TRUNKLINE
PLAN AND PROFILE
STA 65+00 TO STA 70+00**

Project No. 184031401

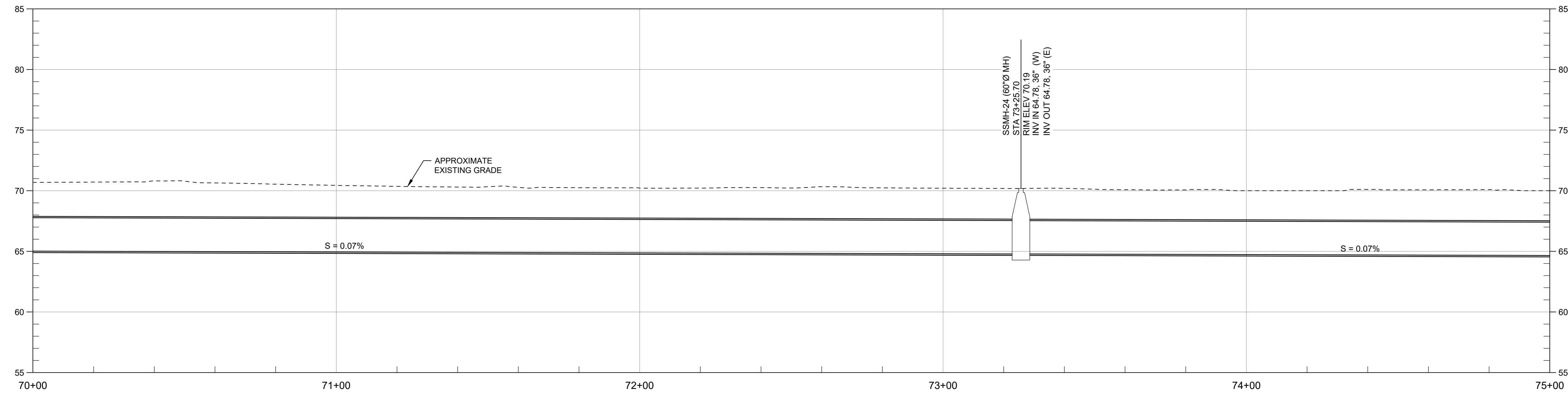
Scale _____

Revision Sheet Drawing No.

20 of 30 **C-23**



PLAN
SCALE: 1" = 20'



PROFILE
SCALE: HORZ 1" = 20', VERT 1" = 5'

- GENERAL NOTES:**
- IT IS THE CONTRACTOR RESPONSIBILITY TO VERIFY ALL LOCATIONS OF EXISTING UTILITIES AND PROTECT IN PLACE. ALL EXISTING UTILITIES NOT DESIGNATED FOR RELOCATION.
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 - CONSTRUCT 60" DIAMETER POLYURETHANE-LINED MANHOLE. SEE DETAIL 6-A ON SHEET GC-02
 - CONSTRUCT I.P.S. 36" DR26 HDPE PIPE. SEE TRENCH DETAIL SHEET GC-01
 - REMOVE AND REPLACE ASPHALT PAVING PER DETAIL 6-H ON SHEET GC-02
 - REMOVE AND RESET TRAFFIC SIGNS
 - REPLACE PAVEMENT MARKINGS IN KIND.
 - REPLACE SOLID WHITE LINE (50 MILL POLYUREA)
 - REPLACE BICYCLE LANE MARKING IN KIND
 - REMOVE EXISTING SEWER PIPE AND RE-GRADE DITCH (INSTALL PIPE PLUG PER DETAIL 2/TYP ON SHEET GC-02)
 - ~~CONSTRUCT 72" DIAMETER POLYURETHANE-LINED MANHOLE. SEE DETAIL 6~~ **NOT USED**
 - CONSTRUCT CMP CULVERT AND HEADWALLS, SEE DETAIL ON SHEET C-31
 - REMOVE AND RESET EXISTING FENCE
 - REMOVE EXISTING MANHOLE (INSTALL PLUG PER DETAIL)
 - REPLACE DOUBLE YELLOW LINE 50 MILL POLYUREA AND RAISED PAVEMENT MARKER AT THE SAME LOCATION
 - ~~CONSTRUCT 72" DIAMETER POLYURETHANE-LINED MANHOLE. SEE DETAIL 6~~ **NOT USED** SEE SHEET C-33
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 - REMOVE EXISTING STORM DRAIN
 - REMOVE EXISTING 12" PVC STORM DRAIN FORCE MAIN.



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36" SS TRUNKLINE PLAN AND PROFILE STA 70+00 TO STA 75+00

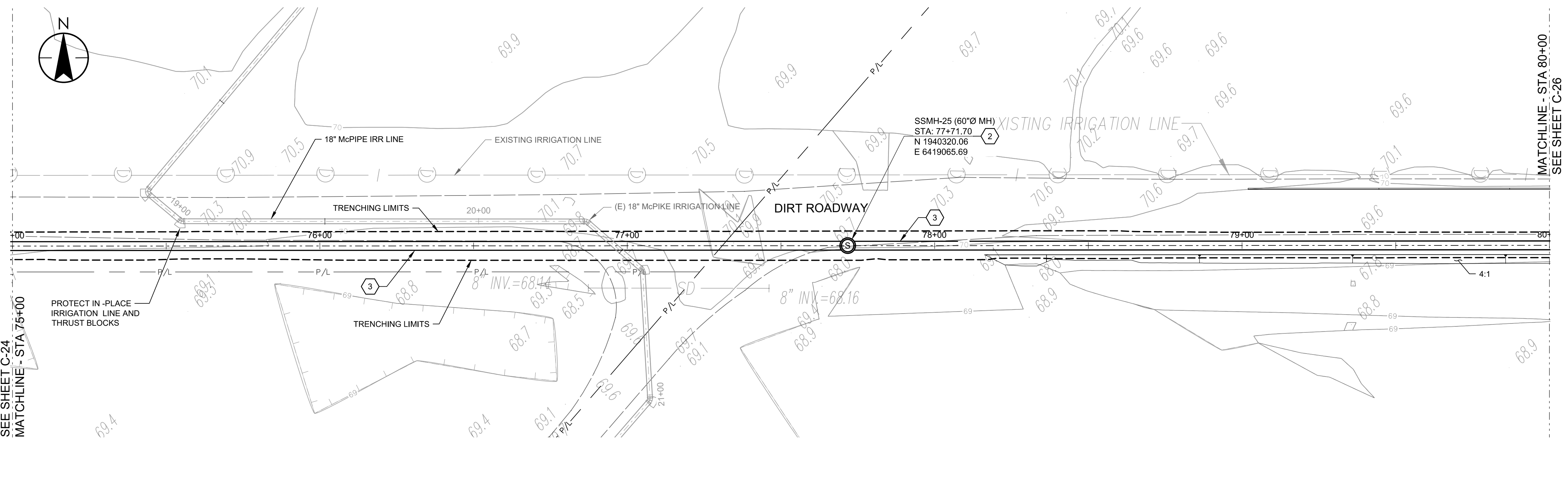
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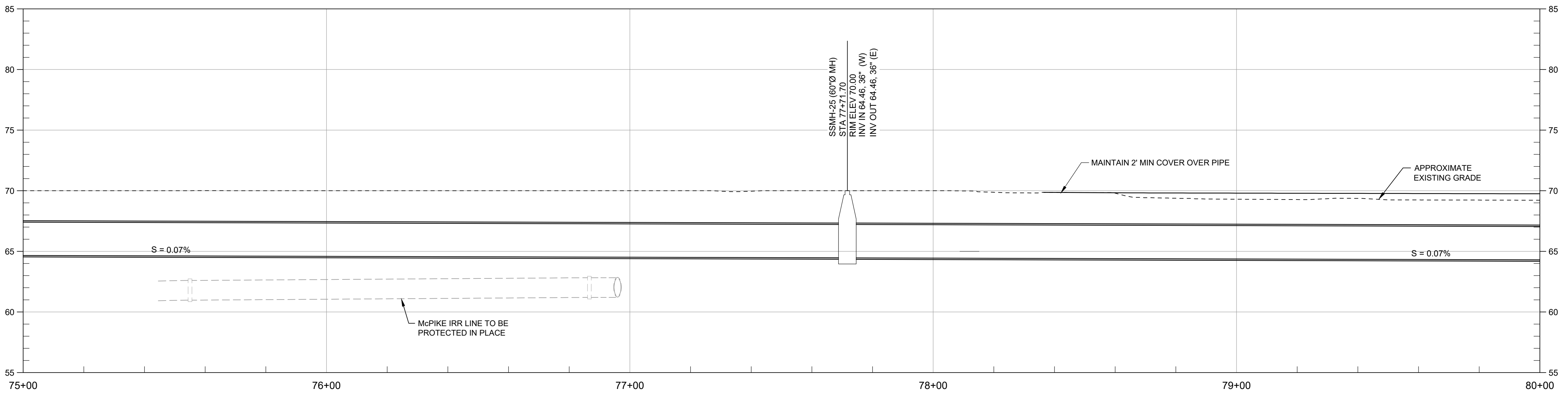
Revision Sheet Drawing No.

21 of 30 **C-24**

- GENERAL NOTES:**
- IT IS THE CONTRACTOR RESPONSIBILITY TO VERIFY ALL LOCATIONS OF EXISTING UTILITIES AND PROTECT IN PLACE ALL EXISTING UTILITIES NOT DESIGNATED FOR RELOCATION.
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 - CONSTRUCT 60" DIAMETER POLYURETHANE-LINED MANHOLE. SEE DETAIL 6-A ON SHEET GC-02
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 - REMOVE EXISTING STORM DRAIN
 - REMOVE EXISTING 12" PVC STORM DRAIN FORCE MAIN.



PLAN
SCALE: 1" = 20'



PROFILE
SCALE: HORZ 1" = 20', VERT 1" = 5'

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PHASE 1 DRAWING

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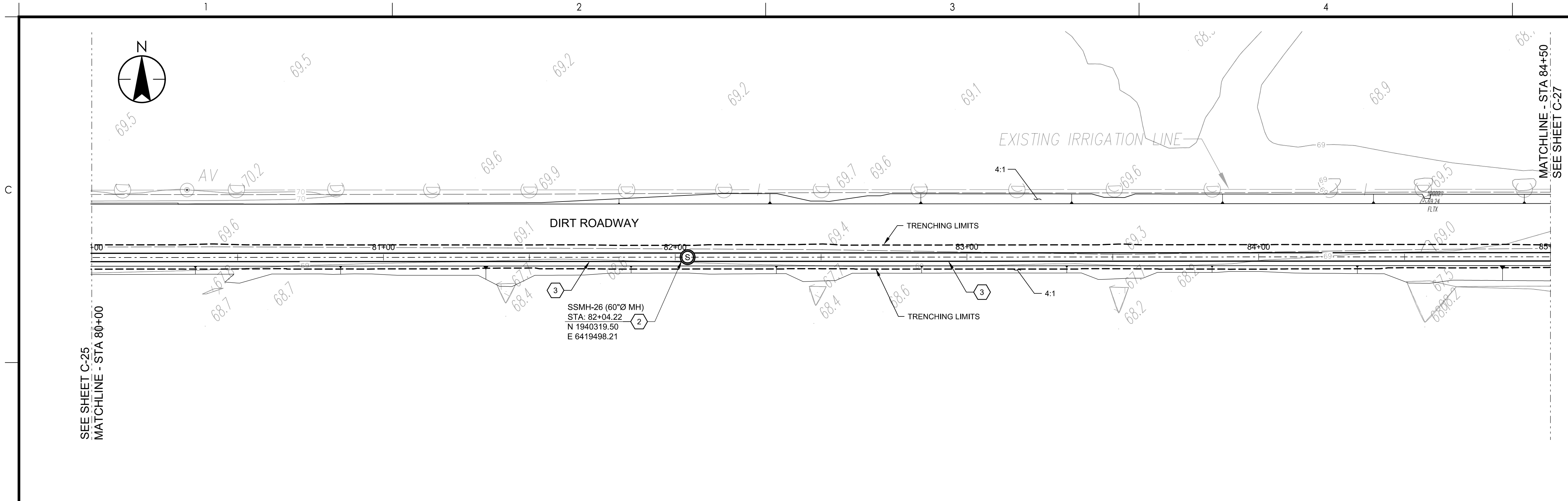
36" SS TRUNKLINE / SITE GRADING PLAN AND PROFILE STA 75+00 TO STA 80+00

Project No. 184031401

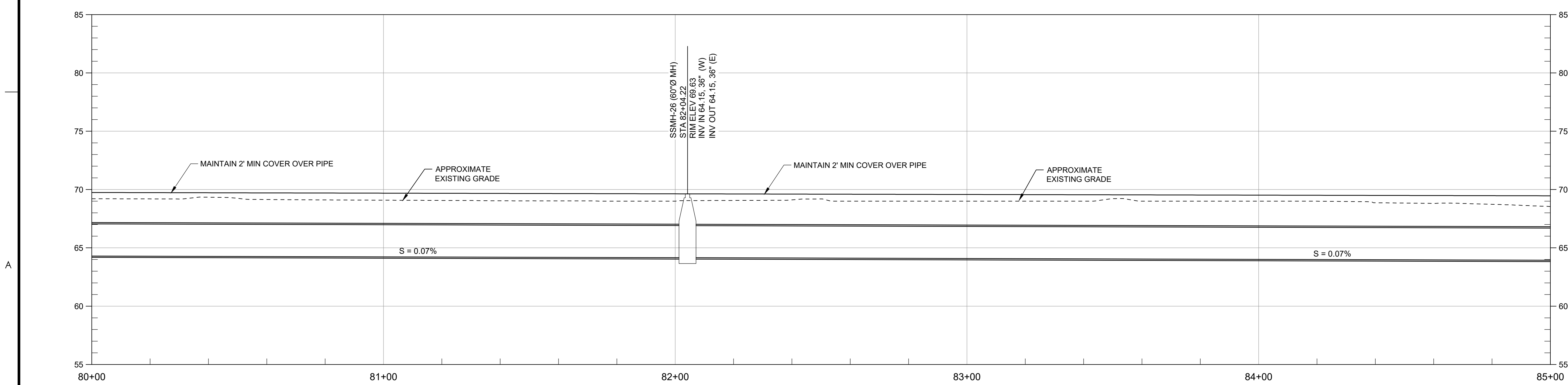
Scale _____

Revision Sheet Drawing No.

22 of 30 **C-25**



PLAN
SCALE: 1" = 20'



PROFILE
SCALE: HORIZ 1" = 20', VERT 1" = 5'

- GENERAL NOTES:**
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 - REPLACE PAVEMENT MARKINGS IN KIND.
 - REPLACE SOLID WHITE LINE (50 MILL POLYUREA)
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 - CONSTRUCT CMP CULVERT AND HEADWALLS, SEE DETAIL ON SHEET C-31
 - REMOVE AND RESET EXISTING FENCE
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 - CONSTRUCT 12" AWWA C-900 PVC STORM DRAIN FOREMAIN. SEE TRENCH SECTION 5-J ON SHEET GC-02
 - REMOVE EXISTING STORM DRAIN
 - REMOVE EXISTING 12" PVC STORM DRAIN FORCE MAIN.



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PHASE 1 DRAWING

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NEWMAN, CALIFORNIA

File Name: X31401-PLAN AND PROF

RG	FR	FR	2022.10.03
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Title

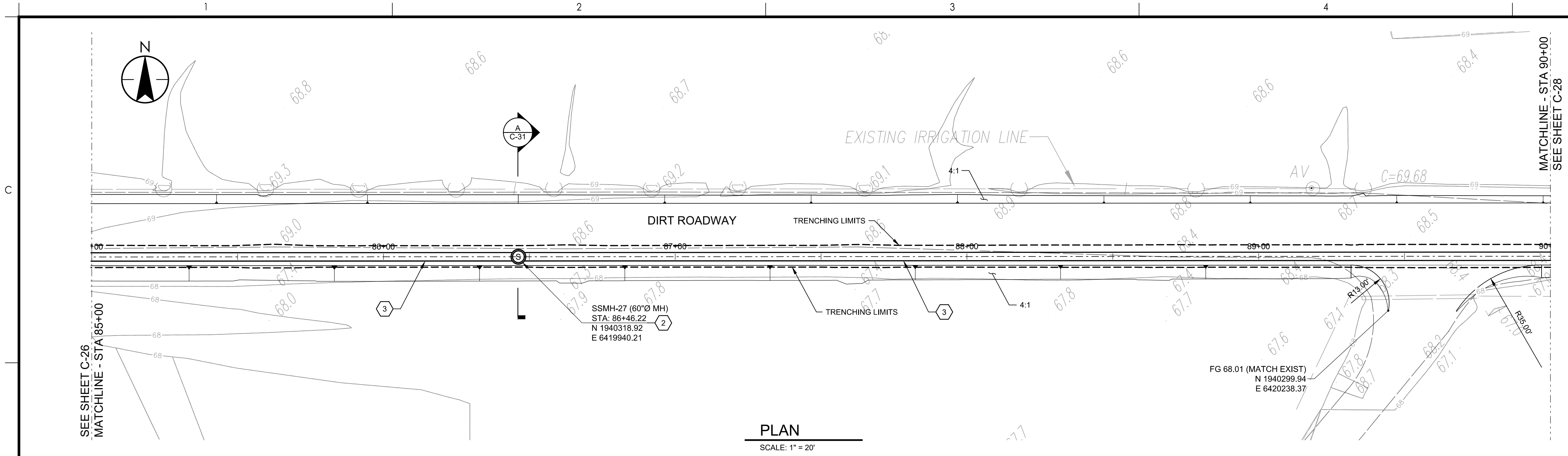
36" SS TRUNKLINE / SITE GRADING PLAN AND PROFILE STA 80+00 TO STA 85+00

Project No. 184031401

Scale _____

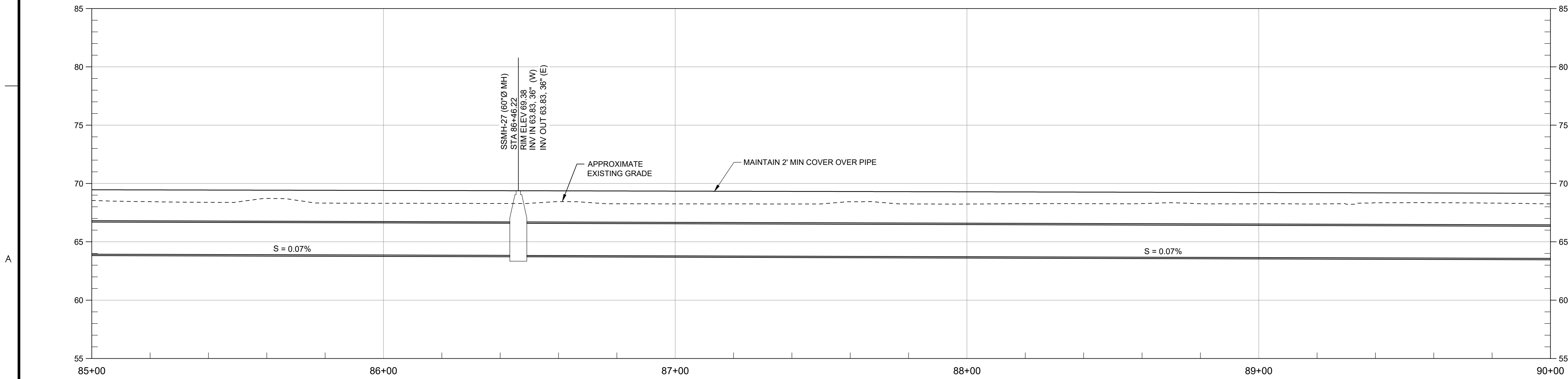
Revision Sheet Drawing No.

23 of 30 **C-26**



PLAN

SCALE: 1" = 20'



PROFILE

SCALE: HORZ 1" = 20', VERT 1" = 5'

- GENERAL NOTES:**
- IT IS THE CONTRACTOR RESPONSIBILITY TO VERIFY ALL LOCATIONS OF EXISTING UTILITIES AND PROTECT IN PLACE ALL EXISTING UTILITIES NOT DESIGNATED FOR RELOCATION.
- CONSTRUCTION NOTES:**
- CONSTRUCT 72" DIAMETER POLYURETHANE-LINED MANHOLE. SEE DETAIL 6-A ON SHEET GC-02
 - CONSTRUCT 60" DIAMETER POLYURETHANE-LINED MANHOLE. SEE DETAIL 6-A ON SHEET GC-02
 - CONSTRUCT I.P.S 36" DR26 HDPE PIPE. SEE TRENCH DETAIL SHEET GC-01
 - REMOVE AND REPLACE ASPHALT PAVING PER DETAIL 6-H ON SHEET GC-02
 - REMOVE AND RESET TRAFFIC SIGNS
 - REPLACE PAVEMENT MARKINGS IN KIND.
 - REPLACE SOLID WHITE LINE (50 MIL POLYUREA)
 - REPLACE BICYCLE LANE MARKING IN KIND
 - REMOVE EXISTING SEWER PIPE AND RE-GRADE DITCH (INSTALL PIPE PLUG PER DETAIL 2/TYP ON SHEET GC-02)
 - CONSTRUCT ~~72" DIAMETER POLYURETHANE-LINED MANHOLE~~ **NOT USED** SEE DETAIL 6
 - CONSTRUCT CMP CULVERT AND HEADWALLS, SEE DETAIL ON SHEET C-31
 - REMOVE AND RESET EXISTING FENCE
 - REMOVE EXISTING MANHOLE (INSTALL PLUG PER DETAIL)
 - REPLACE DOUBLE YELLOW LINE 50 MILL POLYUREA AND RAISED PAVEMENT MARKER AT THE SAME LOCATION
 - CONSTRUCT ~~72" DIAMETER POLYURETHANE-LINED MANHOLE~~ **NOT USED** SEE SHEET C-33
 - REMOVE EXISTING TREE
 - CONSTRUCT 72" FLAT TOP CONCRETE GATED MANHOLE. SEE SHEET GC-03
 - CONSTRUCT D.I.P.S 18" DR 26 HDPE SANITARY SEWER PIPE. SEE TRENCH DETAIL GC-02
 - CONSTRUCT D.I.P.S 24" DR 26 HDPE SANITARY SEWER PIPE. SEE TRENCH DETAIL SHEET GC-02
 - CONSTRUCT 72" DIAMETER STORM MANHOLE PER DETAIL 7-H ON SHEET GC-02
 - CONSTRUCT 24"x38" HERCP. SEE TRENCH SECTION DETAIL 7-C ON SHEET GC-02
 - CONSTRUCT 12" AWWA C-900 PVC STORM DRAIN FOREMAIN. SEE TRENCH SECTION 5-J ON SHEET GC-02
 - REMOVE EXISTING STORM DRAIN
 - REMOVE EXISTING 12" PVC STORM DRAIN FORCE MAIN.



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NEWMAN, CALIFORNIA

File Name: X31401-PLAN AND PROF

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Title

36" SS TRUNKLINE / SITE GRADING PLAN AND PROFILE STA 85+00 TO STA 90+00

Project No. 184031401

Scale _____

Revision Sheet Drawing No.

24 of 30 **C-27**

GENERAL NOTES:

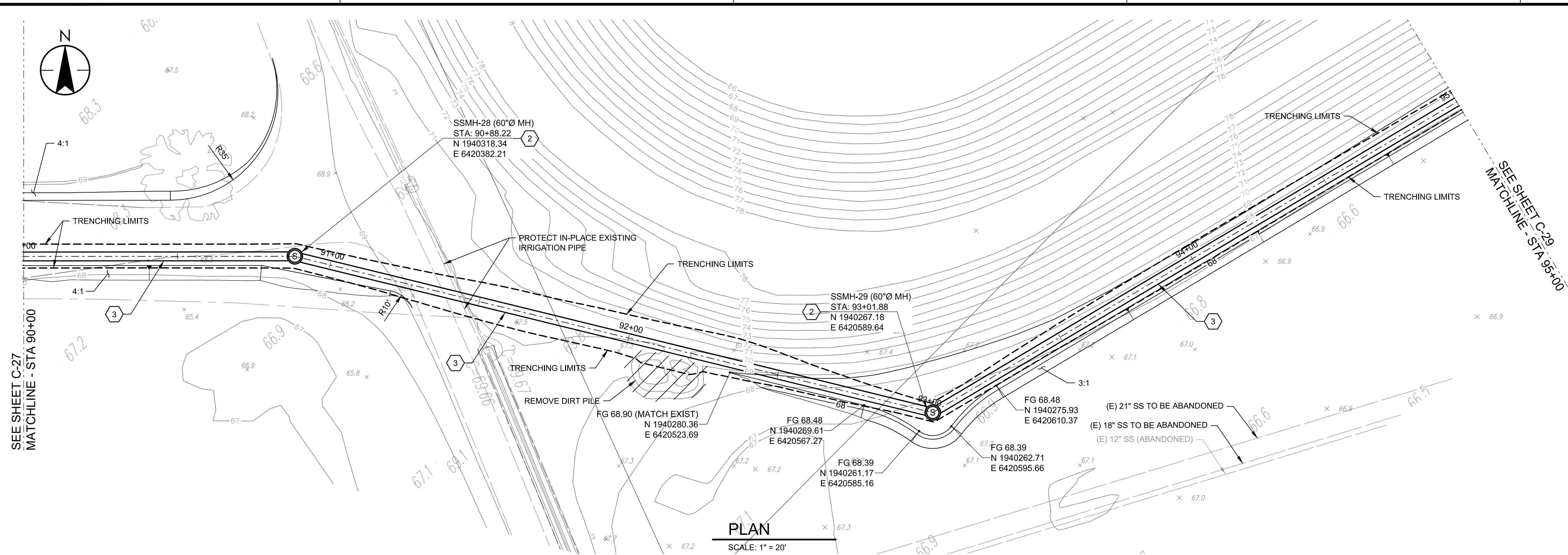
- IT IS THE CONTRACTOR RESPONSIBILITY TO VERIFY ALL LOCATIONS OF EXISTING UTILITIES AND PROTECT IN PLACE ALL EXISTING UTILITIES NOT DESIGNATED FOR RELOCATION.

CONSTRUCTION NOTES:

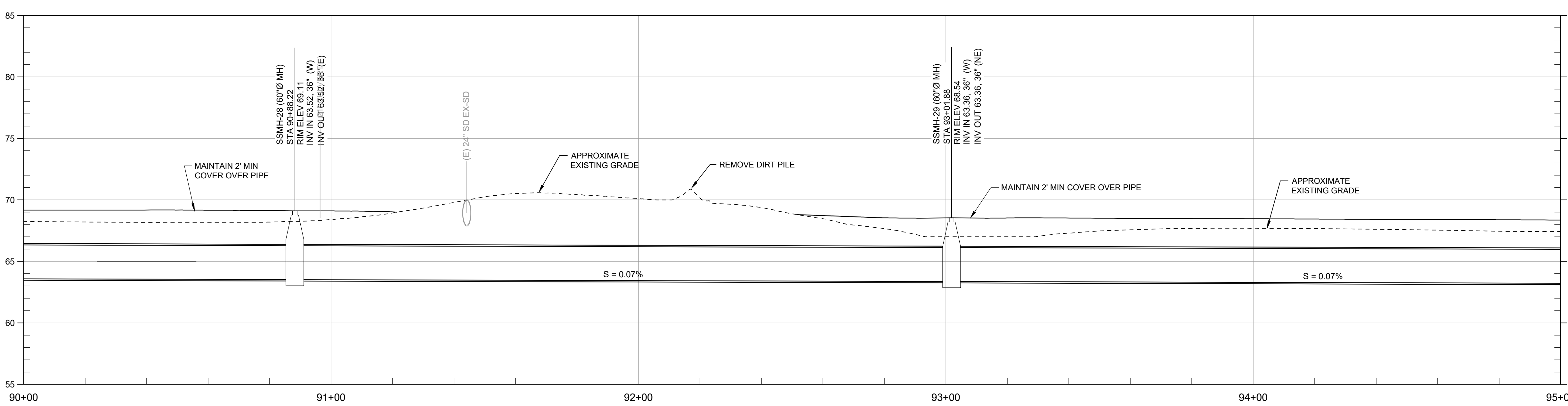
- CONSTRUCT 72" DIAMETER POLYURETHANE-LINED MANHOLE. SEE DETAIL 6-A ON SHEET GC-02
- CONSTRUCT 60" DIAMETER POLYURETHANE-LINED MANHOLE. SEE DETAIL 6-A ON SHEET GC-02
- CONSTRUCT I.P.S 36" DR26 HDPE PIPE. SEE TRENCH DETAIL SHEET GC-01
- REMOVE AND REPLACE ASPHALT PAVING PER DETAIL 6-H ON SHEET GC-02
- REMOVE AND RESET TRAFFIC SIGNS
- REPLACE PAVEMENT MARKINGS IN KIND.
- REPLACE SOLID WHITE LINE (50 MIL POLYUREA)
- REPLACE BICYCLE LANE MARKING IN KIND
- REMOVE EXISTING SEWER PIPE AND RE-GRADE DITCH (INSTALL PIPE PLUG PER DETAIL 2/TYP ON SHEET GC-02)
- CONSTRUCT ~~YURETHANE LINE MANHOLE~~ **NOT USED** SEE DETAIL 6
- CONSTRUCT CMP CULVERT AND HEADWALLS, SEE DETAIL ON SHEET C-31
- REMOVE AND RESET EXISTING FENCE
- REMOVE EXISTING MANHOLE (INSTALL PLUG PER DETAIL)
- REPLACE DOUBLE YELLOW LINE 50 MILL POLYUREA AND RAISED PAVEMENT MARKER AT THE SAME LOCATION
- CONSTRUCT ~~NOT USED~~ SEE SHEET C-33
- REMOVE EXISTING TREE
- CONSTRUCT 72" FLAT TOP CONCRETE GATED MANHOLE. SEE SHEET GC-03
- CONSTRUCT D.I.P.S 18" DR 26 HDPE SANITARY SEWER PIPE. SEE TRENCH DETAIL GC-02
- CONSTRUCT D.I.P.S 24" DR 26 HDPE SANITARY SEWER PIPE. SEE TRENCH DETAIL SHEET GC-02
- CONSTRUCT 72" DIAMETER STORM MANHOLE PER DETAIL 7-H ON SHEET GC-02
- CONSTRUCT 24"x38" HERCP. SEE TRENCH SECTION DETAIL 7-C ON SHEET GC-02
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- REMOVE EXISTING STORM DRAIN
- REMOVE EXISTING 12" PVC STORM DRAIN FORCE MAIN.



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PLAN
SCALE: 1" = 20'



PROFILE
SCALE: HORZ 1" = 20', VERT 1" = 5'

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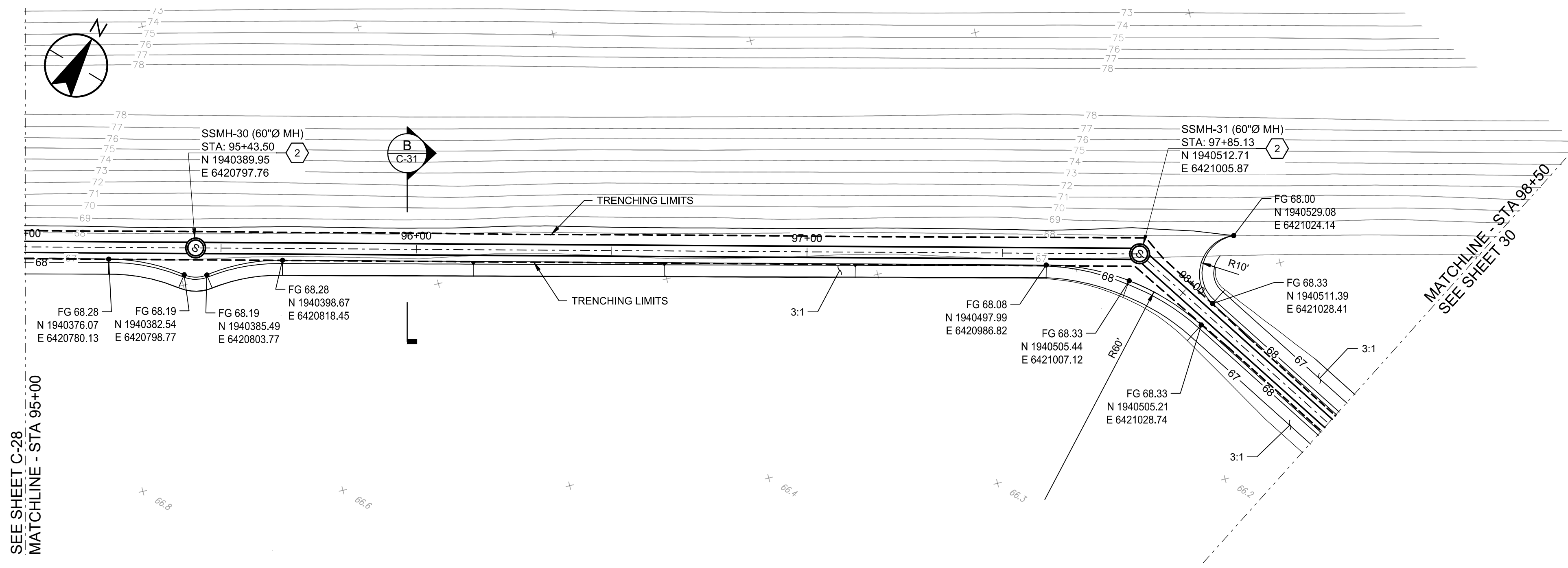
36" SS TRUNKLINE / SITE GRADING PLAN AND PROFILE STA 90+00 TO STA 95+00

Project No. 184031401

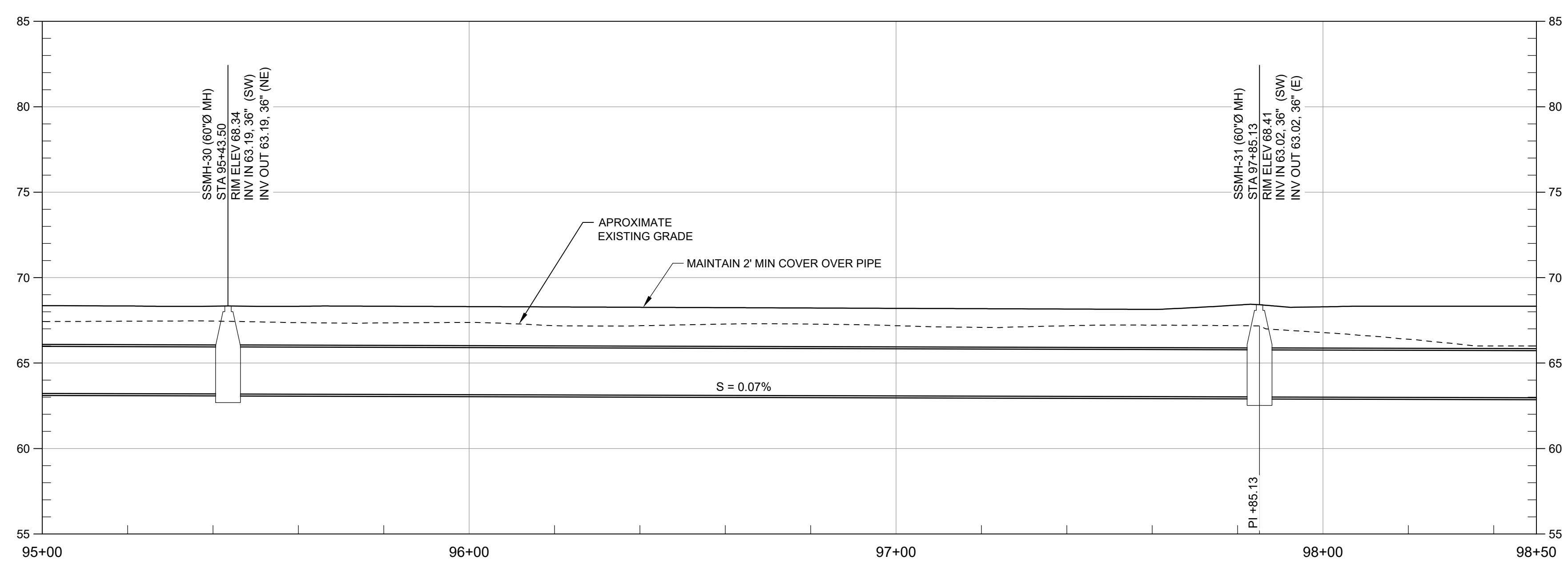
Scale _____

Revision Sheet Drawing No.

25 of 30 **C-28**



PLAN
SCALE: 1" = 20'



PROFILE
SCALE: HORZ 1" = 20', VERT 1" = 5'

- GENERAL NOTES:**
- IT IS THE CONTRACTOR RESPONSIBILITY TO VERIFY ALL LOCATIONS OF EXISTING UTILITIES AND PROTECT IN PLACE ALL EXISTING UTILITIES NOT DESIGNATED FOR RELOCATION.
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 - CONSTRUCT 60" DIAMETER POLYURETHANE-LINED MANHOLE. SEE DETAIL 6-A ON SHEET GC-02
 - CONSTRUCT I.P.S 36" DR26 HDPE PIPE. SEE TRENCH DETAIL SHEET GC-01
 - REMOVE AND REPLACE ASPHALT PAVING PER DETAIL 6-H ON SHEET GC-02
 - REMOVE AND RESET TRAFFIC SIGNS
 - REPLACE PAVEMENT MARKINGS IN KIND.
 - REPLACE SOLID WHITE LINE (50 MIL POLYUREA)
 - REPLACE BICYCLE LANE MARKING IN KIND
 - REMOVE EXISTING SEWER PIPE AND RE-GRADE DITCH (INSTALL PIPE PLUG PER DETAIL 2/TYP ON SHEET GC-02)
 - CONSTRUCT ~~YURETHANE LINE MANHOLE~~ **NOT USED** SEE DETAIL 6
 - CONSTRUCT CMP CULVERT AND HEADWALLS, SEE DETAIL ON SHEET C-31
 - REMOVE AND RESET EXISTING FENCE
 - REMOVE EXISTING MANHOLE (INSTALL PLUG PER DETAIL)
 - REPLACE DOUBLE YELLOW LINE 50 MIL POLYUREA AND RAISED PAVEMENT MARKER AT THE SAME LOCATION
 - CONSTRUCT ~~SEE SHEET C-33~~ **NOT USED**
 - REMOVE EXISTING TREE
 - CONSTRUCT 72" FLAT TOP CONCRETE GATED MANHOLE. SEE SHEET GC-03
 - CONSTRUCT D.I.P.S 18" DR 26 HDPE SANITARY SEWER PIPE. SEE TRENCH DETAIL GC-02
 - CONSTRUCT D.I.P.S 24" DR 26 HDPE SANITARY SEWER PIPE. SEE TRENCH DETAIL SHEET GC-02
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 - REMOVE EXISTING STORM DRAIN
 - REMOVE EXISTING 12" PVC STORM DRAIN FORCE MAIN.



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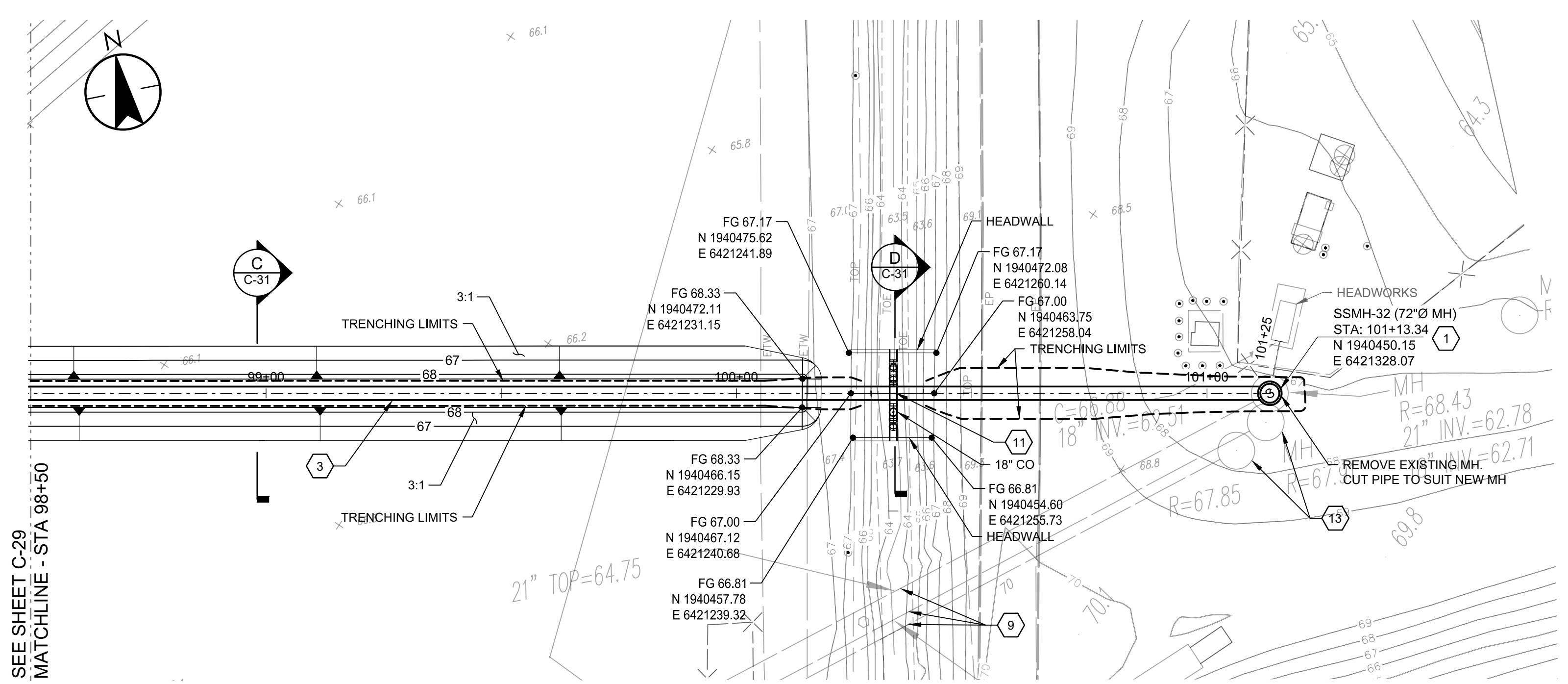
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36" SS TRUNKLINE / SITE GRADING PLAN AND PROFILE STA 95+00 TO STA 98+50

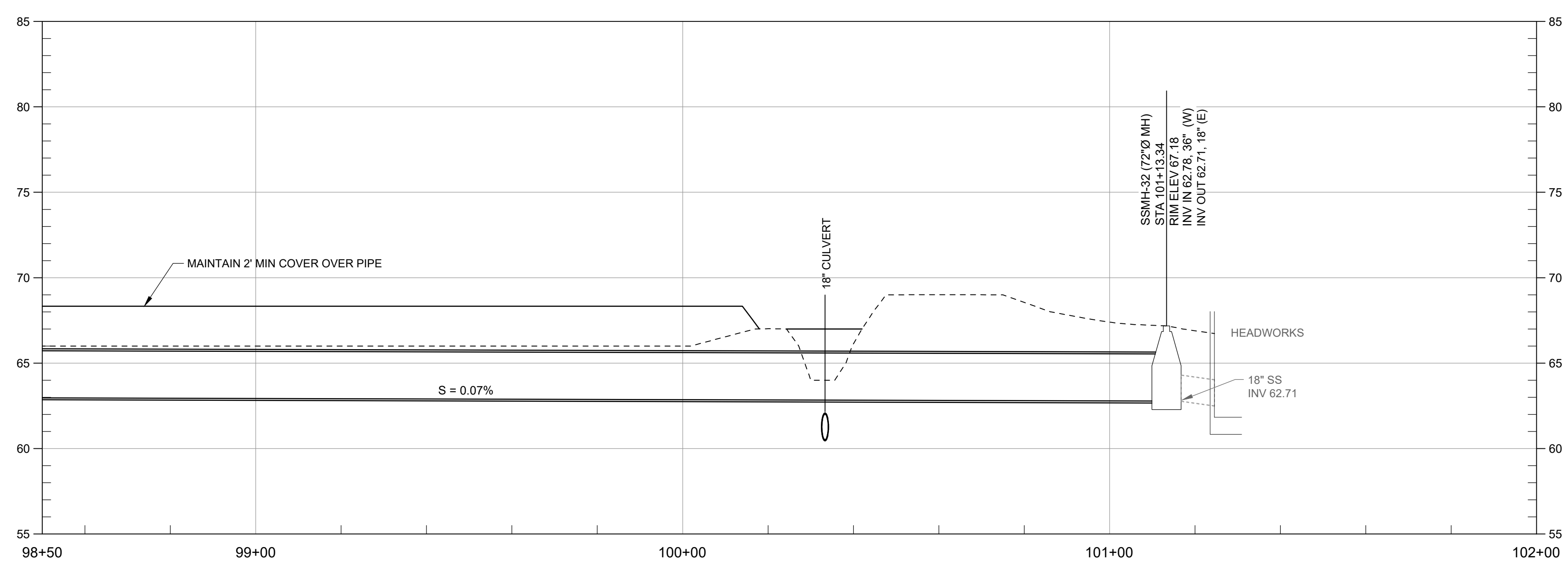
Project No. 184031401

Revision Sheet Drawing No. 26 of 30 **C-29**



PLAN

SCALE: 1" = 20'



PROFILE

SCALE: HORZ 1" = 20', VERT 1" = 5'

- GENERAL NOTES:**
- IT IS THE CONTRACTOR RESPONSIBILITY TO VERIFY ALL LOCATIONS OF EXISTING UTILITIES AND PROTECT IN PLACE ALL EXISTING UTILITIES NOT DESIGNATED FOR RELOCATION.
- CONSTRUCTION NOTES:**
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 - CONSTRUCT 60" DIAMETER POLYURETHANE-LINED MANHOLE. SEE DETAIL 6-A ON SHEET GC-02
 - CONSTRUCT I.P.S 36" DR26 HDPE PIPE. SEE TRENCH DETAIL SHEET GC-01
 - REMOVE AND REPLACE ASPHALT PAVING PER DETAIL 6-H ON SHEET GC-02
 - REMOVE AND RESET TRAFFIC SIGNS
 - REPLACE PAVEMENT MARKINGS IN KIND.
 - REPLACE SOLID WHITE LINE (50 MIL POLYUREA)
 - REPLACE BICYCLE LANE MARKING IN KIND
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 - CONSTRUCT 72" DIAMETER POLYURETHANE-LINED MANHOLE. SEE DETAIL 6-A ON SHEET GC-02
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 - REPLACE DOUBLE YELLOW LINE 50 MIL POLYUREA AND RAISED PAVEMENT MARKER AT THE SAME LOCATION
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 - REMOVE EXISTING STORM DRAIN
 - REMOVE EXISTING 12" PVC STORM DRAIN FORCE MAIN.



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Title

**36" SS TRUNKLINE / SITE GRADING
PLAN AND PROFILE
STA 98-50 TO STA 101+00**

Project No. 184031401

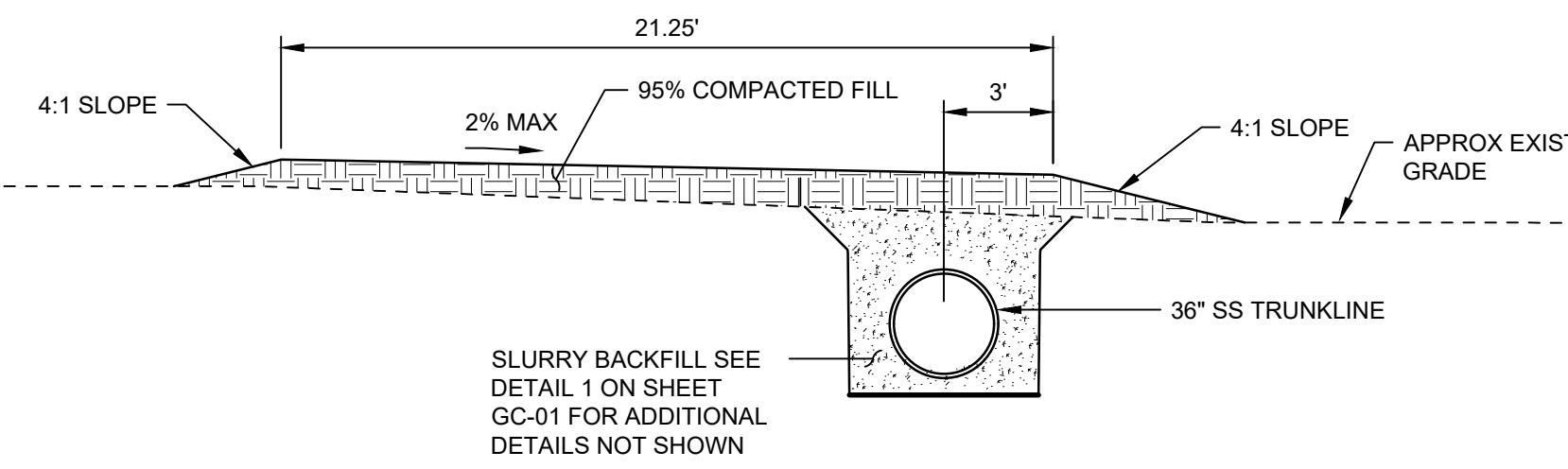
Scale _____

Revision Sheet 27 of 30

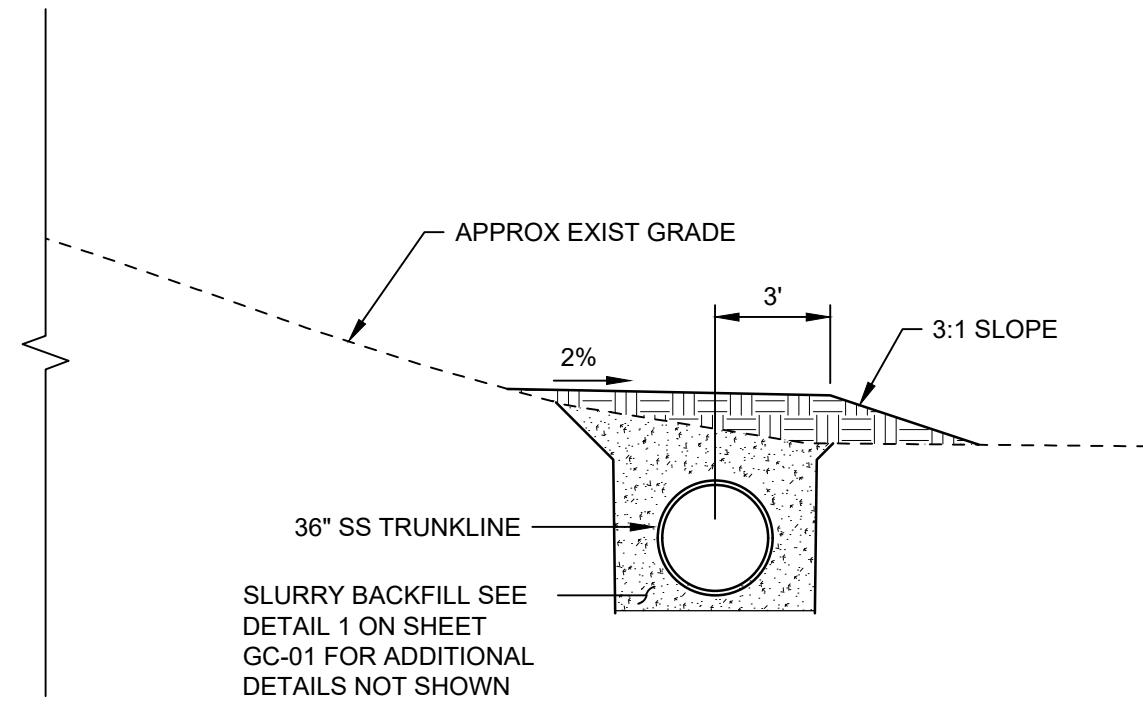
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NOTE:
SEE SHEET C-25 THROUGH SHEET C-30 FOR FINISH GRADING

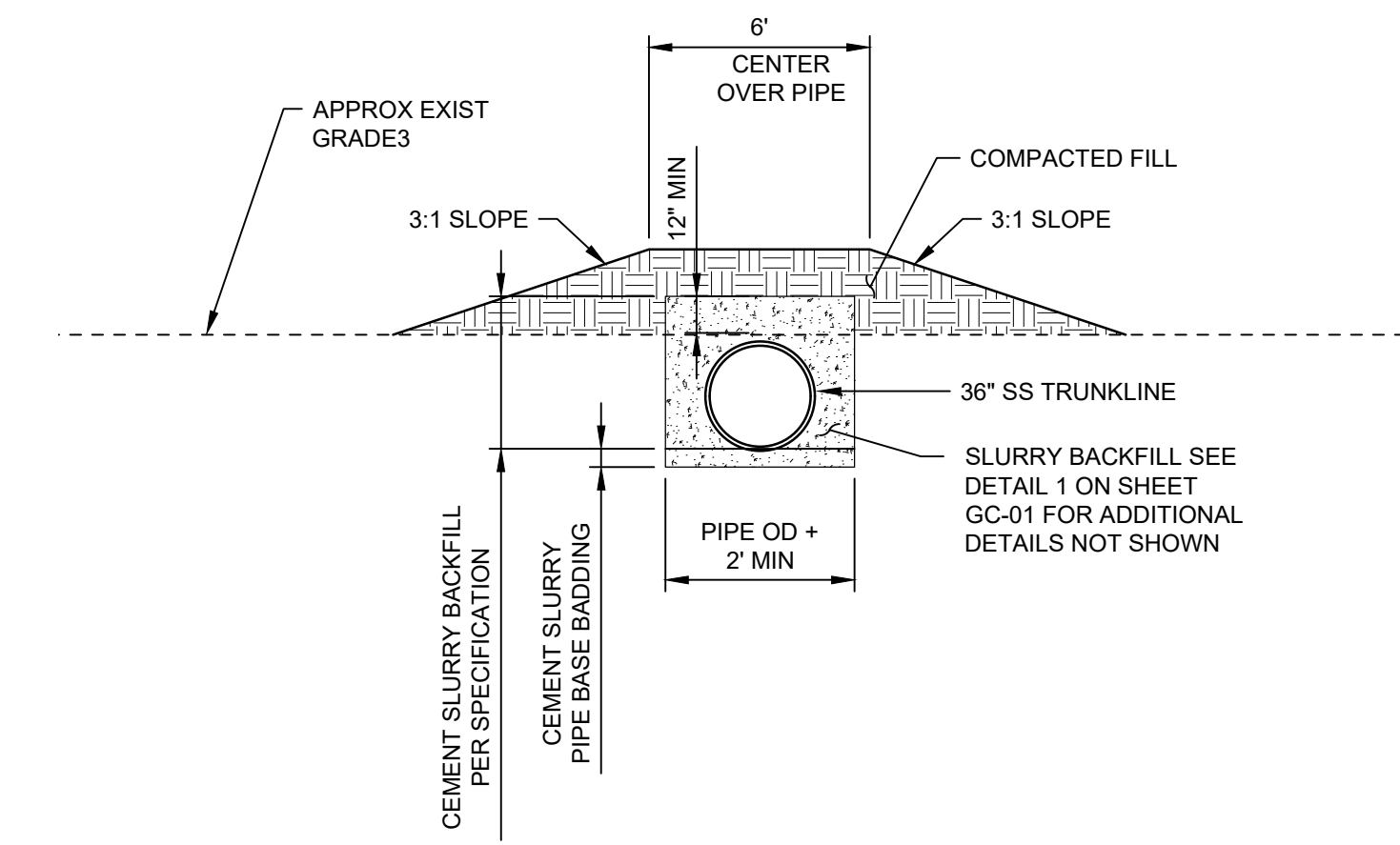
C



A
SECTION
C-28
SCALE: 1" = 5'

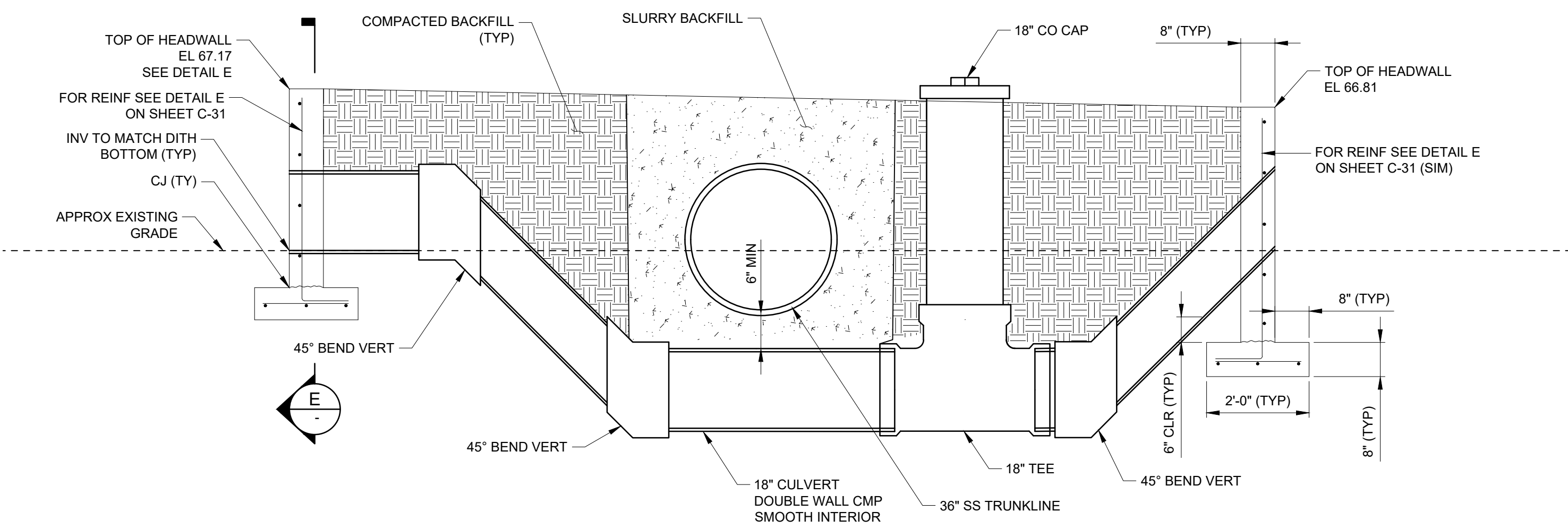


B
SECTION
C-29
SCALE: 1" = 5'

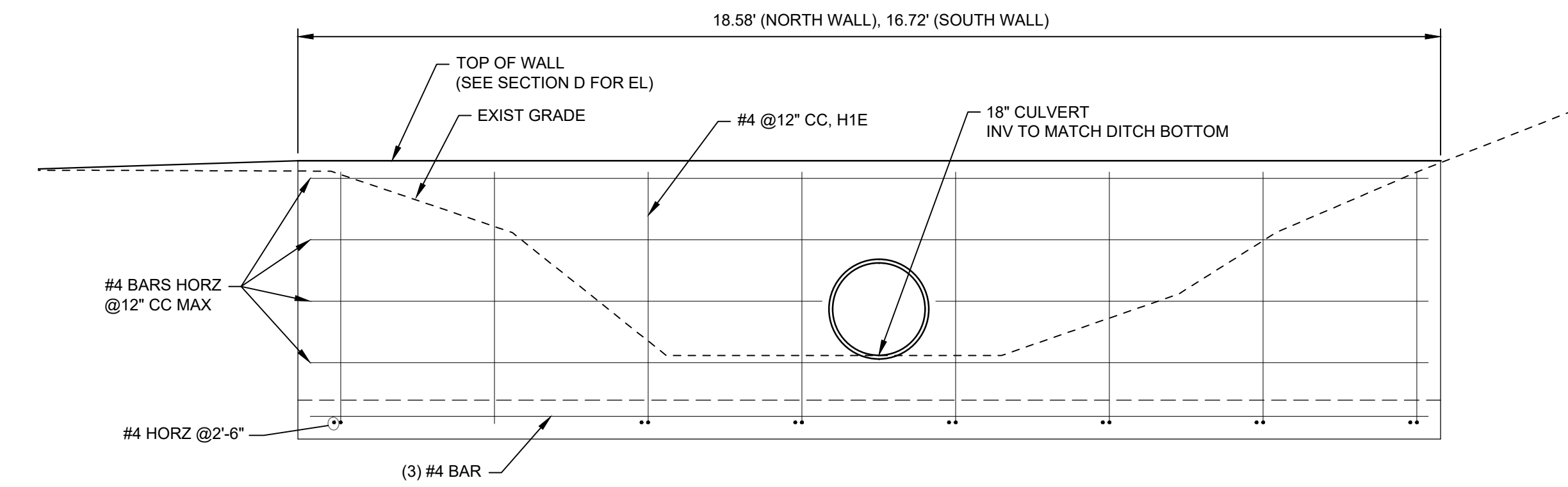


C
SECTION
C-30
SCALE: 1" = 5'

B



D
SECTION
C-30
SCALE: 1" = 2'



E
HEADWALL DETAIL
SCALE: 1" = 2'

A

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NEWMAN, CALIFORNIA

File Name: X31401-PLAN AND PROF

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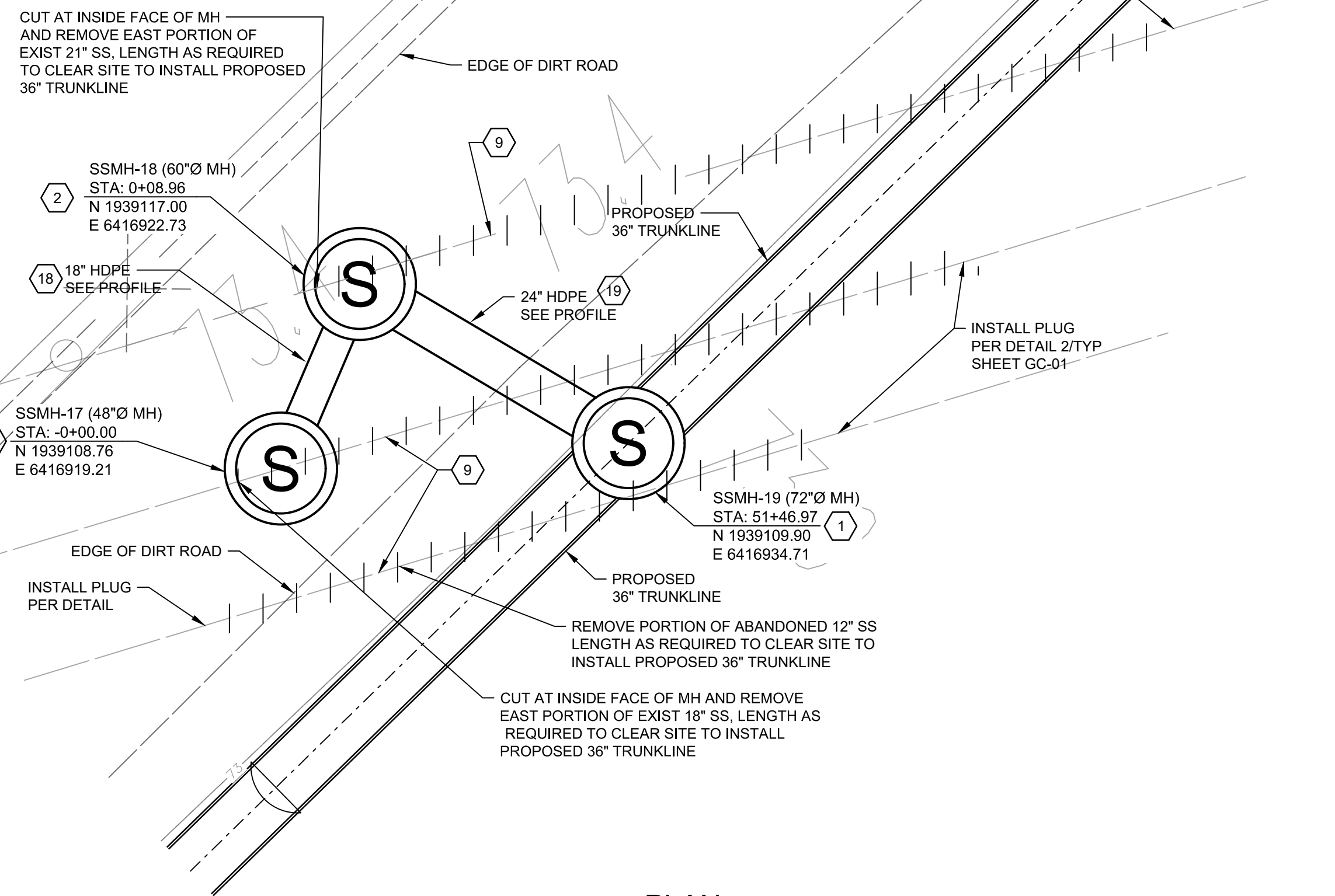
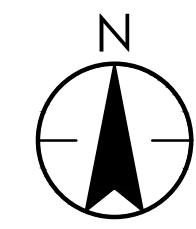
SECTIONS AND DETAILS

Project No. 184031401

Scale _____

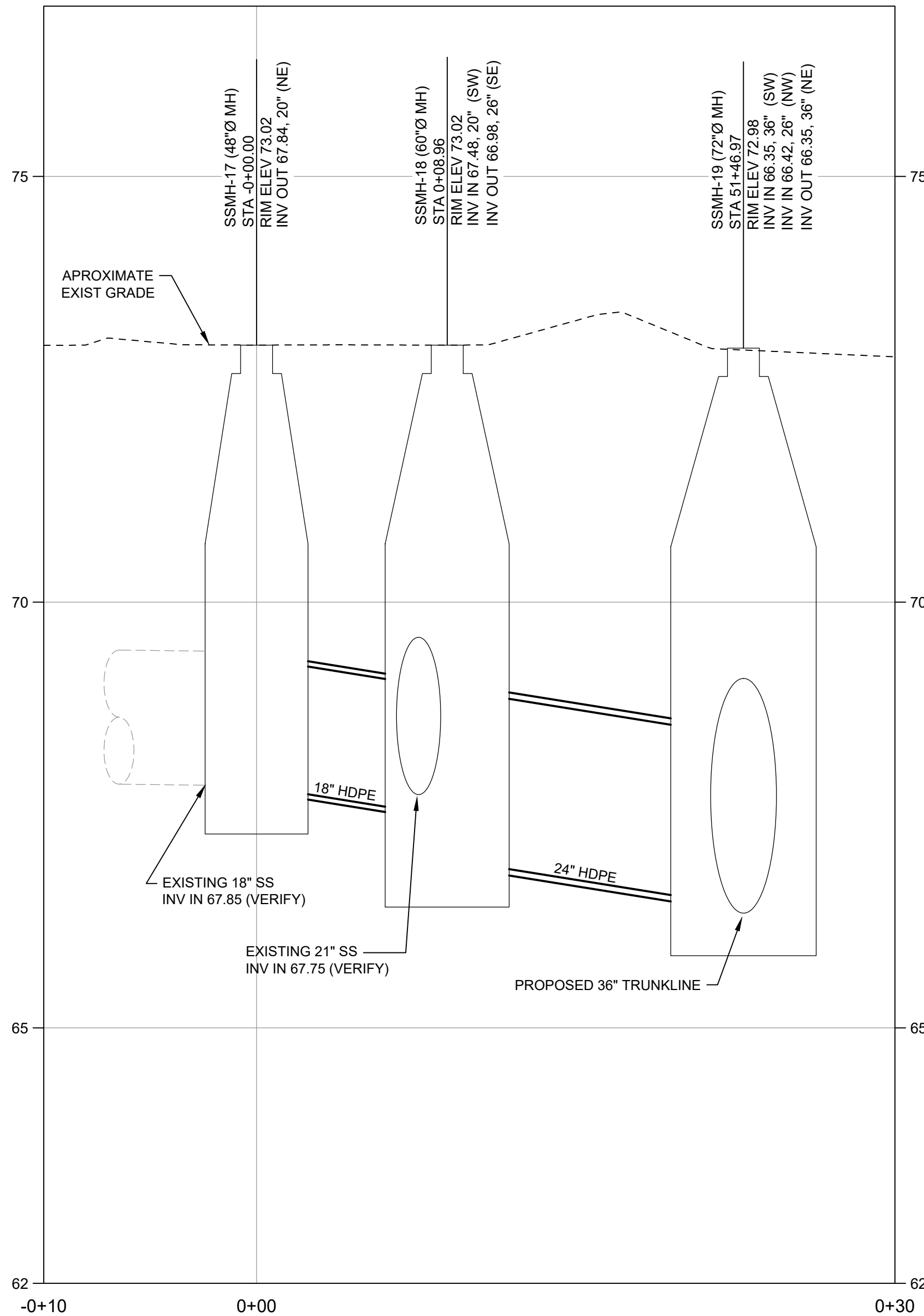
Revision Sheet Drawing No.

28 of 30 **C-31**



PLAN

SCALE: 1" = 20'



PROFILE

SCALE: HORZ 1" = 5', VERT 2" = 5'

GENERAL NOTES:

- IT IS THE CONTRACTOR RESPONSIBILITY TO VERIFY ALL LOCATIONS OF EXISTING UTILITIES AND PROTECT IN PLACE. ALL EXISTING UTILITIES NOT DESIGNATED FOR RELOCATION.

CONSTRUCTION NOTES:

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- CONSTRUCT 60" DIAMETER POLYURETHANE-LINED MANHOLE. SEE DETAIL 6-A ON SHEET GC-02
- CONSTRUCT I.P.S 36" DR26 HDPE PIPE. SEE TRENCH DETAIL SHEET GC-01
- REMOVE AND REPLACE ASPHALT PAVING PER DETAIL 6-H ON SHEET GC-02
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- REPLACE PAVEMENT MARKINGS IN KIND.
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- REPLACE BICYCLE LANE MARKING IN KIND
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- REMOVE EXISTING STORM DRAIN
- REMOVE EXISTING 12" PVC STORM DRAIN FORCE MAIN.



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CITY OF NEWMAN

NEWMAN INFLUENT TRUNK SEWER

NEWMAN, CALIFORNIA

File Name: X31401-PLAN AND PROF

RG	FR	FR	2022.10.03
Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

Title

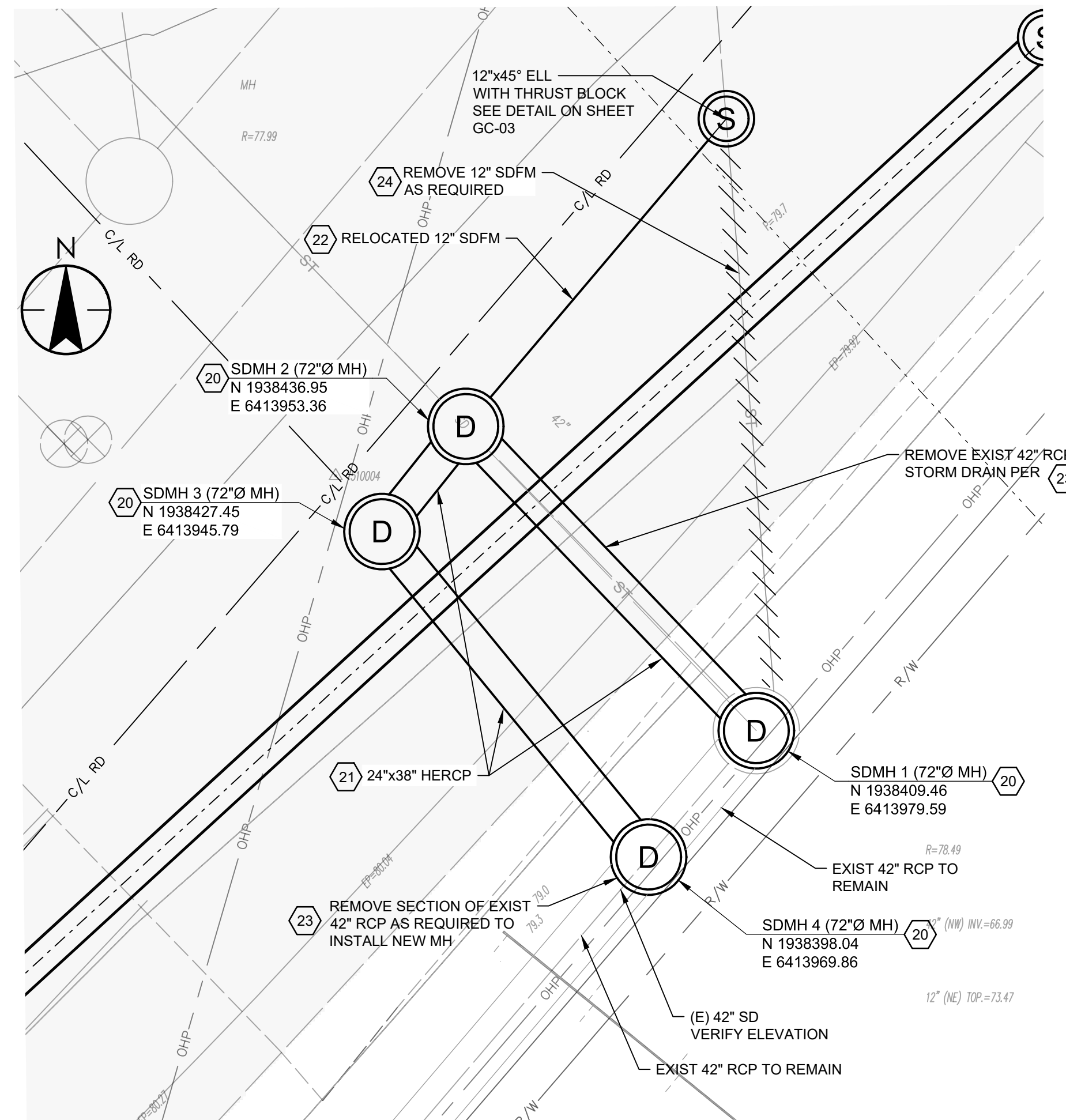
**36" SS TRUNKLINE
PLAN AND PROFILE
DETAIL**

Project No. 184031401

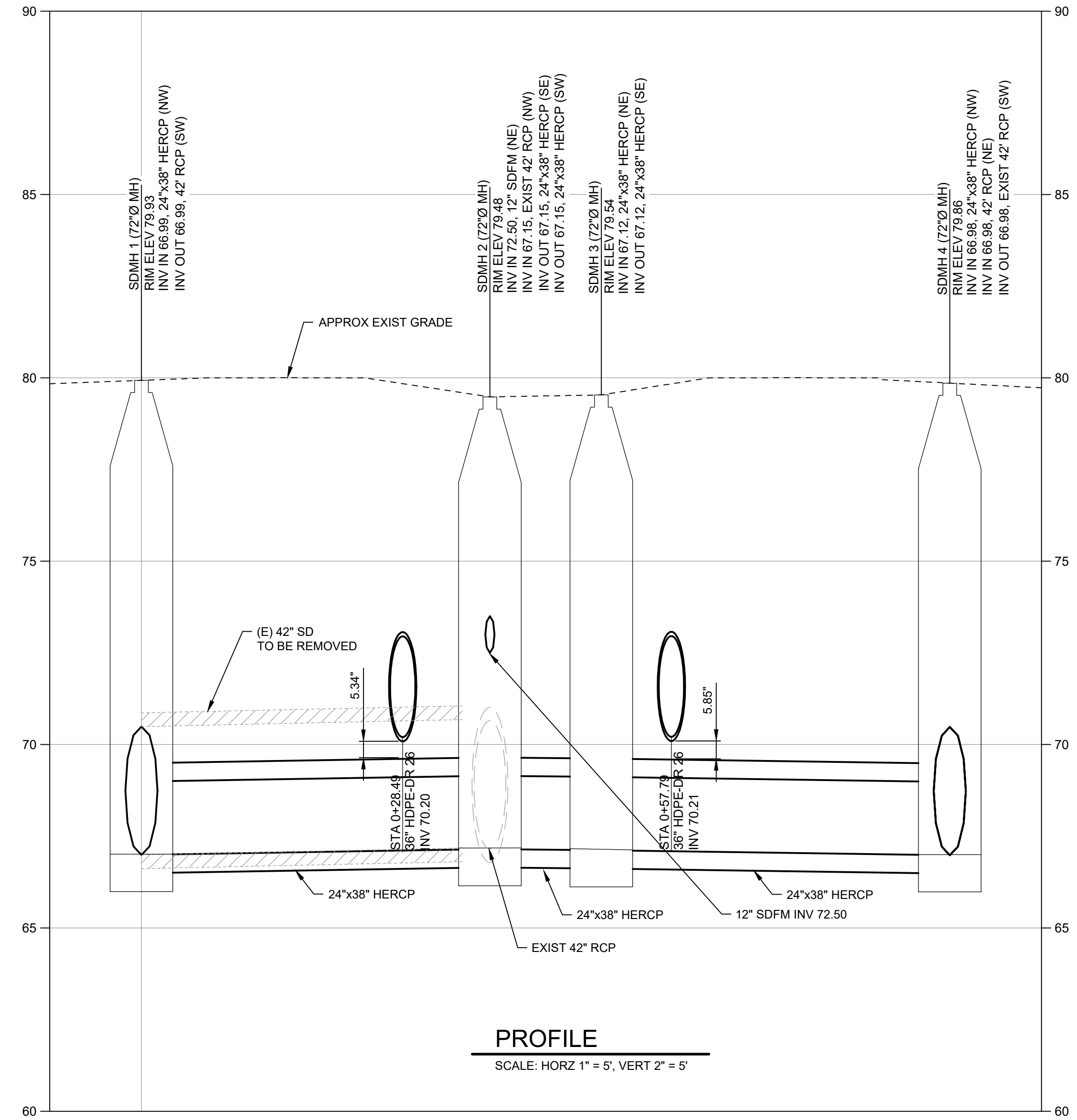
Revision Sheet 29 of 30

Scale

Drawing No. **C-32**



PLAN
SCALE: 1" = 20'



PROFILE
SCALE: HORZ 1" = 5', VERT 2" = 5'

- GENERAL NOTES:**
- IT IS THE CONTRACTOR RESPONSIBILITY TO VERIFY ALL LOCATIONS OF EXISTING UTILITIES AND PROTECT IN PLACE ALL EXISTING UTILITIES NOT DESIGNATED FOR RELOCATION.
- CONSTRUCTION NOTES:**
- CONSTRUCT 72" DIAMETER POLYURETHANE-LINED MANHOLE. SEE DETAIL 6-A ON SHEET GC-02
 - CONSTRUCT 60" DIAMETER POLYURETHANE-LINED MANHOLE. SEE DETAIL 6-A ON SHEET GC-02
 - CONSTRUCT I.P.S 36" DR26 HDPE PIPE. SEE TRENCH DETAIL SHEET GC-01
 - REMOVE AND REPLACE ASPHALT PAVING PER DETAIL 6-H ON SHEET GC-02
 - REMOVE AND RESET TRAFFIC SIGNS
 - REPLACE PAVEMENT MARKINGS IN KIND.
 - REPLACE SOLID WHITE LINE (50 MIL POLYUREA)
 - REPLACE BICYCLE LANE MARKING IN KIND
 - REMOVE EXISTING SEWER PIPE AND RE-GRADE DITCH (INSTALL PIPE PLUG PER DETAIL 2/TYP ON SHEET GC-02)
 - CONSTRUCT ~~72" DIAMETER POLYURETHANE-LINED MANHOLE~~ **NOT USED** SEE DETAIL 6
 - CONSTRUCT CMP CULVERT AND HEADWALLS, SEE DETAIL ON SHEET C-31
 - REMOVE AND RESET EXISTING FENCE
 - REMOVE EXISTING MANHOLE (INSTALL PLUG PER DETAIL)
 - REPLACE DOUBLE YELLOW LINE 50 MILL POLYUREA AND RAISED PAVEMENT MARKER AT THE SAME LOCATION
 - CONSTRUCT ~~72" DIAMETER POLYURETHANE-LINED MANHOLE~~ **NOT USED** SEE SHEET C-33
 - REMOVE EXISTING TREE
 - CONSTRUCT 72" FLAT TOP CONCRETE GATED MANHOLE. SEE SHEET GC-03
 - CONSTRUCT D.I.P.S 18" DR 26 HDPE SANITARY SEWER PIPE. SEE TRENCH DETAIL GC-02
 - CONSTRUCT D.I.P.S 24" DR 26 HDPE SANITARY SEWER PIPE. SEE TRENCH DETAIL SHEET GC-02
 - CONSTRUCT 72" DIAMETER STORM MANHOLE PER DETAIL 7-H ON SHEET GC-02
 - CONSTRUCT 24"x38" HERCP. SEE TRENCH SECTION DETAIL 7-C ON SHEET GC-02
 - CONSTRUCT 12" AWWA C-900 PVC STORM DRAIN FORCEMAIN. SEE TRENCH SECTION 5-J ON SHEET GC-02
 - REMOVE EXISTING STORM DRAIN
 - REMOVE EXISTING 12" PVC STORM DRAIN FORCE MAIN.



Know what's below.
Call before you dig.

V:\1840\active\184031401\drawing\31401-plan and prof 2023.04.06 9:48:29 AM

PHASE 2
DRAWING

Issued _____ vppd YYYY.MM.DD

Revision _____ By _____ Appd YYYY.MM.DD

CONFORMED

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Permit/Seal

Consultant

WARNING

IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE

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Client/Project Logo

Client/Project

CITY OF NEWMAN

NEWMAN INFLUENT TRUNK SEWER

NEWMAN, CALIFORNIA

File Name: X31401-PLAN AND PROF

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**36" SS TRUNKLINE
PLAN AND PROFILE
DETAIL**

Project No. 184031401

Revision Sheet Drawing No. **C-33**

Scale

30 of 30

CalEEMod Results

B
APPENDIX

Newman Sewer Trunk Construction Emissions - San Joaquin Valley Air Basin, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Newman Sewer Trunk Construction Emissions

San Joaquin Valley Air Basin, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Asphalt Surfaces	28.80	1000sqft	0.66	28,800.00	0
Other Non-Asphalt Surfaces	68.60	1000sqft	1.57	68,600.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.7	Precipitation Freq (Days)	45
Climate Zone	3			Operational Year	2025
Utility Company	Pacific Gas and Electric Company				
CO2 Intensity (lb/MW hr)	203.98	CH4 Intensity (lb/MW hr)	0.033	N2O Intensity (lb/MW hr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - 5165-2878=2287

2023-00-00010

Construction Phase - Per City Consultant Email 122922

Off-road Equipment -

Off-road Equipment - Per City Consultant EMail 122922

Off-road Equipment - Per City Consultant Email 122922

Off-road Equipment - Per City Consultant Email 122922

Off-road Equipment - Per City Consultant Email 122922

Trips and VMT - No building construction

Offloading spoils to WWTRF

Hauling Trips to match vendor default

Demolition -

Newman Sewer Trunk Construction Emissions - San Joaquin Valley Air Basin, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Grading - per City Consultant EMail 122922

Construction Off-road Equipment Mitigation - Add clean engines and dust control per SJVAPCD Rule 9510 and Reg VIII

Table Name	Column Name	Default Value	New Value
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	8.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	220.00	1.00
tblConstructionPhase	NumDays	3.00	70.00
tblConstructionPhase	NumDays	6.00	70.00
tblGrading	MaterialExported	0.00	4,000.00
tblGrading	MaterialExported	0.00	600.00
tblGrading	MaterialImported	0.00	2,600.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblTripsAndVMT	HaulingTripLength	20.00	7.30
tblTripsAndVMT	HaulingTripLength	20.00	1.00
tblTripsAndVMT	VendorTripNumber	16.00	0.00
tblTripsAndVMT	VendorTripNumber	0.00	16.00
tblTripsAndVMT	WorkerTripNumber	41.00	0.00

2.0 Emissions Summary

Newman Sewer Trunk Construction Emissions - San Joaquin Valley Air Basin, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2024	0.1502	1.2514	1.0109	2.4300e-003	0.3182	0.0498	0.3680	0.1299	0.0462	0.1760	0.0000	212.7289	212.7289	0.0583	2.2000e-003	214.8412
Maximum	0.1502	1.2514	1.0109	2.4300e-003	0.3182	0.0498	0.3680	0.1299	0.0462	0.1760	0.0000	212.7289	212.7289	0.0583	2.2000e-003	214.8412

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2024	0.1219	0.9946	1.0226	2.4300e-003	0.1513	0.0378	0.1891	0.0606	0.0350	0.0957	0.0000	212.7286	212.7286	0.0583	2.2000e-003	214.8409
Maximum	0.1219	0.9946	1.0226	2.4300e-003	0.1513	0.0378	0.1891	0.0606	0.0350	0.0957	0.0000	212.7286	212.7286	0.0583	2.2000e-003	214.8409

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	18.85	20.52	-1.16	0.00	52.47	24.00	48.62	53.31	24.13	45.66	0.00	0.00	0.00	0.00	0.00	0.00

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	1-1-2024	3-31-2024	0.5219	0.4202
2	4-1-2024	6-30-2024	0.2971	0.2387
3	7-1-2024	9-30-2024	0.5332	0.4162
		Highest	0.5332	0.4202

CNDDDB Records

C
APPENDIX

Appendix C Special-Status Plant Species with Potential to Occur in the Project Vicinity

Species	Status (Federal/State/CNPS)	Suitable Habitat Description	Potential to Occur on Project Site
Alkali milk-vetch (<i>Astragalus tener</i> var. <i>tener</i>)	--/--/1B.2	Alkaline sites in playas, valley and foothill grassland (on adobe clay), and vernal pools; elevation 1-60m. Blooming Period: March - June.	Unlikely. Suitable vernal pool or alkaline habitat not found at the project site.
Alkali-sink goldfields (<i>Lasthenia chrysantha</i>)	--/--/1B.1	Vernal pools. Alkaline; elevation 0-200m.	Unlikely. Suitable vernal pool or alkaline habitat not found at the project site.
Big tarplant (<i>Blepharizonia plumosa</i>)	--/--/1B.1	Valley and foothill grassland. Dry hills and plains in annual grassland. Clay to clay-loam soils, usually on slopes and often in burned areas; elevation 15-445m. Blooming Period: July - October.	Unlikely. Suitable clay soil habitat not found at the project site.
California alkali grass (<i>Puccinellia simplex</i>)	--/--/1B.2	Meadows and seeps, chenopod scrub, valley and foothill grasslands, vernal pools. Alkaline, vernal mesic. Sinks, flats, and lake margins; elevation 1-915m. Blooming Period: March - May.	Unlikely. Suitable vernal pool or alkaline habitat not found at the project site.
Coulter's goldfields (<i>Lasthenia glabrata</i> ssp. <i>coulteri</i>)	--/--/1B.1	Coastal salt marshes, playas, vernal pools. Usually found on alkaline soils in playas, sinks, and grasslands; elevation 1-1375m. Blooming Period: February – June.	Unlikely. Suitable vernal pool or alkaline habitat not found at the project site.
Delta button-celery (<i>Eryngium racemosum</i>)	--/SE/1B.1	Riparian scrub; prefers seasonally inundated floodplain on clay soils; elevation 3-75m. Blooming Period: June - August.	Unlikely. Suitable riparian scrub habitat not found at the project site.
Diamond-petaled California poppy (<i>Eschscholzia rhombipetala</i>)	--/--/1B.1	Valley and foothill grassland. Alkaline, clay slopes and flats; elevation 0-97m. Blooming Period: March - April.	Unlikely. Suitable vernal pool or alkaline habitat not found at the project site.
Heartscale (<i>Atriplex cordulata</i> var. <i>cordulata</i>)	--/--/1B.2	Chenopod scrub, valley and foothill grassland, and meadows. Prefers alkaline flats and scalds in the Central Valley, on sandy soils; elevation 1-150m. Blooming Period: April - October.	Unlikely. Suitable alkaline habitat not found at the project site.
Hispid's salty bird's-beak (<i>Chloropyron molle</i> ssp. <i>hispidum</i>)	--/--/1B.1	Meadows, playas, valley and foothill grassland. In damp alkaline soils, especially in alkaline meadows and alkali sinks with <i>Distichlis</i> sp.; elevation 10-155m. Blooming Period: June - September.	Unlikely. Suitable meadow or alkaline habitat not found at the project site.
Hospital Canyon larkspur (<i>Delphinium californicum</i> ssp. <i>interius</i>)	--/--/1B.2	Cismontane woodland and chaparral, in wet, boggy meadows, openings in chaparral, and in canyons; elevation 225-1060m. Blooming Period: April - June.	Unlikely. Suitable meadow habitat not found at the project site.
Lemmon's jewel-flower (<i>Caulanthus lemmonii</i>)	--/--/1B.2	Pinyon-juniper woodland, valley and foothill grassland; elevation 80-1220m. Blooming Period: March - May.	Unlikely. Suitable woodland or undisturbed grassland habitat not found at the project site.

Species	Status (Federal/State/ CNPS)	Suitable Habitat Description	Potential to Occur on Project Site
Lesser saltscare (<i>Atriplex minuscula</i>)	--/--/1B.1	Chenopod scrub, playas, and valley and foothill grassland. In alkali sinks in sandy, alkaline soils; elevation 20-100m. Blooming Period: May - October.	Unlikely. Suitable alkaline habitat not found at the project site.
Lime Ridge navarretia (<i>Navarretia gowenii</i>)	--/--/1B.2	Chaparral, on calcium carbonate-rich soil with high clay content; elevation 180-305m. Blooming Period: May - June.	Unlikely. Suitable clay soil habitat not found at the project site.
Northern slender pondweed (<i>Stuckenia filiformis</i> ssp. <i>alpina</i>)	--/--/2B.2	Marshes and swamps. Shallow, clear water of lakes and drainage channels; elevation 5-2325m. Blooming Period: May – July.	Unlikely. Suitable wetland habitat not found at the project site.
Prostrate vernal pool navarretia (<i>Navarretia prostrata</i>)	--/--/1B.1	Coastal scrub, valley and foothill grassland, and vernal pools. Alkaline soils in grassland, or in vernal pools; elevation 15-700m. Blooming Period: April - July.	Unlikely. Suitable vernal pool or alkaline habitat not found at the project site.
San Joaquin spearscale (<i>Extriplex joaquinana</i>)	--/--/1B.2	Alkaline sites in chenopod scrub, meadows and seeps, playas, and valley and foothill grassland; elevation 1-320m. Blooming Period: April - October.	Unlikely. Suitable vernal pool or alkaline habitat not found at the project site.
Sanford's arrowhead (<i>Sagittaria sanfordii</i>)	--/--/1B.2	Marshes and swamps. Found in standing or slow-moving freshwater ponds, marshes, and ditches; elevation 0-610m. Blooming Period: May - October.	Unlikely. Suitable wetland habitat not found at the project site.
Shining navarretia (<i>Navarretia nigelliformis</i> ssp. <i>radians</i>)	--/--/1B.2	Cismontane woodland, valley and foothill grassland, and vernal pools; elevation 200-1000m. Blooming Period: May - July.	Unlikely. Suitable vernal pool habitat not found at the project site.
Spiny-sepaled button-celery (<i>Eryngium spinosepalum</i>)	--/--/1B.2	Vernal pools within valley and foothill grassland. Some sites on clay soils of granitic origin; elevation 100-420m. Blooming Period: April - May.	Unlikely. Suitable vernal pool habitat not found at the project site.
Vernal pool smallscale (<i>Atriplex persistens</i>)	--/--/1B.2	Vernal pools on alkaline soils; elevation 10-115m. Blooming Period: July - October.	Unlikely. Suitable vernal pool or alkaline habitat not found at the project site.
Wright's trichocoronis (<i>Trichocoronis wrightii</i> var. <i>wrightii</i>)	--/--/2B.1	Marshes and swamps, riparian forest, meadows and seeps, vernal pools. Mud flats of vernal lakes, drying river beds, alkali meadows; elevation 5-435m. Blooming Period: May – September.	Unlikely. Suitable wetland habitat not found at the project site.

SOURCE: CDFW 2022, CNPS 2022

NOTE: Status Codes:

Federal (USFWS)

FE: Listed as Endangered under the Federal Endangered Species Act.

FT: Listed as Threatened under the Federal Endangered Species Act.

FC: A Candidate for listing as Threatened or Endangered under the Federal Endangered Species Act.

FSC: Species of Special Concern.

FD: Delisted under the Federal Endangered Species Act.

State (CDFW)

SE: Listed as Endangered under the California Endangered Species Act.

ST: Listed as Threatened under the California Endangered Species Act.

SR: Listed as Rare under the California Endangered Species Act.

SC: A Candidate for listing as Threatened or Endangered under the California Endangered Species Act.

SSC: Species of Special Concern.

SFP: Fully Protected species under the California Fish and Game Code.

SD: Delisted under the California Endangered Species Act.

CNPS Rare Plant Ranks and Threat Code Extensions

1B: Plants that are considered Rare, Threatened, or Endangered in California and elsewhere.

2B: Plants that are considered Rare, Threatened, or Endangered in California, but more common elsewhere.

.1: Seriously endangered in California (over 80% of occurrences threatened/high degree and immediacy of threat).

.2: Fairly endangered in California (20-80% occurrences threatened).

.3: Not very endangered in California (<20% of occurrences threatened or no current threats known).

Appendix C Special-Status Wildlife Species with Potential to Occur in the Project Vicinity

Species	Status (Federal/State)	Suitable Habitat Description	Potential to Occur on Project Site
American badger (<i>Taxidea taxus</i>)	--/SSC	Most abundant in drier, open stages of most shrub, forest, and herbaceous habitats. Need sufficient food and open, uncultivated ground with friable soils to dig burrows. Prey on burrowing rodents.	Unlikely. Suitable undisturbed habitat not found at the project site.
Bald eagle (<i>Haliaeetus leucocephalus</i>)	FD/SE	Ocean shore, lake margins, and rivers for both nesting and wintering. Most nests within one mile of water. Nests in large, old-growth, or dominant live tree with open branches.	Unlikely. Suitable open water habitat not found at the project site.
Blunt-nosed leopard lizard (<i>Gambelia sila</i>)	FE/SE	Resident of sparsely vegetated alkali and desert scrub habitats, in areas of low topographic relief. Seeks cover in mammal burrows, under shrubs or structures such as fence posts.	Unlikely. Suitable alkaline habitat not found at the project site.
Burrowing owl (<i>Athene cunicularia</i>)	--/SSC	Open, dry, annual or perennial grasslands, desert, or scrubland, with available small mammal burrows.	Low potential to occur on project site due to presence of marginally suitable habitat. CNDDDB occurrences recorded within the project site vicinity.
California condor (<i>Gymnogyps californianus</i>)	FE/SE	Require vast expanses of open savannah, grasslands, and foothill chaparral in mountain ranges of moderate altitude. Deep canyons containing clefts in the rocky walls provide nesting sites. Forages up to 100 miles from roost/nest.	Unlikely. Suitable open grassland habitat not found at the project site.
California horned lark (<i>Eremophila alpestris actia</i>)	--/SSC	Coastal regions, chiefly from Sonoma County to San Diego County, also within the main part of the San Joaquin Valley and east to the foothills. Prefers short-grass prairie, mountain meadows, open coastal plains, fallow grain fields, alkali flats.	Unlikely. Suitable native grassland habitat not found at the project site.
California linderiella (<i>Linderiella occidentalis</i>)	FSC/--	Seasonal pools in unplowed grasslands with old alluvial soils underlain by hardpan or in sandstone depressions. Water in the pools typically has very low alkalinity, conductivity, and total dissolved solids.	Unlikely. Suitable vernal pool habitat not found at the project site.
California red-legged frog (<i>Rana draytonii</i>)	FT/SSC	Rivers, creeks, and stock ponds with pools and overhanging vegetation. Requires dense, shrubby or emergent riparian vegetation, and prefers short riffles and pools with slow-moving, well-oxygenated water. Needs upland habitat to aestivate (remain dormant during dry months) in small mammal burrows, cracks in the soil, or moist leaf litter.	Unlikely. Suitable wetland habitat not found at the project site.

Species	Status (Federal/State)	Suitable Habitat Description	Potential to Occur on Project Site
California tiger salamander (<i>Ambystoma californiense</i>)	FT/ST	Grasslands and oak woodlands near seasonal pools and stock ponds in central and coastal California. Needs upland habitat to aestivate (remain dormant during dry months) in small mammal burrows, cracks in the soil, or moist leaf litter. Requires seasonal water sources that persist into late March for breeding habitat.	Unlikely. Suitable wetland habitat not found at the project site.
Conservancy fairy shrimp (<i>Branchinecta conservatio</i>)	FE/--	Endemic to the grasslands of the northern two-thirds of the central valley; found in large, turbid pools. Also occurs in swales formed by old, braided alluvium filled by winter/spring rains.	Unlikely. Suitable vernal pool habitat not found at the project site.
Fresno kangaroo rat (<i>Dipodomys nitratoides exilis</i>)	FE/SE	Alkali sink-open grassland habitats in western Fresno County. Bare alkaline clay-based soils subject to seasonal inundation, with more friable soil mounds around shrubs and grasses.	Unlikely. Suitable alkaline habitat not found at the project site.
Foothill yellow-legged frog (<i>Rana boylei</i>)	--/SSC	Partly shaded, shallow streams and riffles with rocky substrate in a variety of habitats. Requires at least some cobble-sized substrate for egg-laying and 15 weeks of available water to attain metamorphosis.	Unlikely. Suitable wetland habitat not found at the project site.
Giant garter snake (<i>Thamnophis gigas</i>)	FT/ ST	Prefers freshwater marsh and low gradient streams. Adapted to drainage canals and irrigation ditches. The most aquatic garter snake in California.	Unlikely. Suitable wetland habitat not found at the project site.
Golden eagle (<i>Aquila chrysaetos</i>)	--/SFP	Rolling foothill mountain areas, sage-juniper flats, and desert. Cliff-walled canyons provide nesting habitat in most parts of range. Also uses large trees in open areas.	Unlikely. Suitable habitat not found at the project site.
Hoary bat (<i>Lasiurus cinereus</i>)	--/SSC	Prefers open habitats or habitat mosaics, with access to trees for cover and open areas or habitat edges for feeding. Roosts in dense foliage of medium to large trees. Feeds primarily on moths. Requires water.	Low potential to occur on project site due to presence of marginally suitable habitat. CNDDDB occurrences recorded within the project site vicinity.
Least Bell's vireo (<i>Vireo bellii pusillus</i>)	FE/SE	Summer resident of southern and central California in riparian habitats below 2,000 feet in elevation. Often nests in large shrubs, along margins of bushes or on twigs projecting into pathways.	Unlikely. Suitable riparian habitat not found at the project site.
Loggerhead shrike (<i>Lanius ludovicianus</i>)	--/SSC	(Nesting) Broken woodlands, savannah, pinyon-juniper, Joshua tree and riparian woodlands, desert oases, scrub and washes. Prefers open country for hunting, with perches for scanning and fairly dense shrubs and brush for nesting.	Low potential to occur on project site due to presence of marginally suitable habitat. CNDDDB occurrences recorded within the project site vicinity.
Long-horn fairy shrimp (<i>Branchinecta longiantenna</i>)	FE/--	Endemic to the eastern margin of the Central Coast mountains in seasonally astatic grassland vernal pools. Inhabits small, clear-water depressions in sandstone and clear to turbid clay/grass-bottomed pools in shallow swales.	Unlikely. Suitable vernal pool habitat not found at the project site.

Species	Status (Federal/State)	Suitable Habitat Description	Potential to Occur on Project Site
Monarch butterfly (<i>Danaus plexippus</i>)	FC/--	Winter roost sites. Wind protected tree groves (Eucalyptus, Monterey pine, cypress) with nectar and water sources nearby.	Unlikely. Potentially suitable habitat (eucalyptus) found at the project site but no known overwintering sites in area. Most winter roost site are along the coast.
Northern California legless lizard (<i>Anniella pulchra</i>)	--/SSC	Sandy or loose loamy soils under sparse vegetation, moist soils. <i>Anniella pulchra</i> is traditionally split into two subspecies: <i>A. pulchra pulchra</i> (silvery legless lizard) and <i>A. pulchra nigra</i> (black legless lizard), but these subspecies are typically no longer recognized.	Unlikely. Suitable undisturbed sandy soil habitat not found at the project site.
Northern harrier (<i>Circus cyaneus</i>)	--/SSC	Found near coastal salt and freshwater marshes. Nests and forages in grasslands. Nests on ground in shrubby vegetation, usually at marsh edge; nest built of a large mound of sticks in wet areas.	Unlikely. Suitable undisturbed habitat not found at the project site.
Pallid bat (<i>Antrozous pallidus</i>)	--/SSC	Deserts, grasslands, scrublands, woodlands, and forests. Most common in open, dry habitats with rocky areas for roosting. Roosts must protect bats from high temperatures.	Low potential to occur on project site due to presence of marginally suitable habitat. CNDDDB occurrences recorded within the project site vicinity.
Prairie falcon (<i>Falco mexicanus</i>)	--/SSC	Nesting Habitats. Open terrain, either level or hilly breeding sites located on cliffs. Forages far distances, including to marshlands and ocean shores.	Unlikely. Suitable undisturbed habitat not found at the project site.
Sacramento splittail (<i>Pogonichthys macrolepidotus</i>)	--/SSC	Endemic to the lakes and rivers of the Central Valley, but now confined to the Delta, Suisun Bay, and associated marshes. Slow moving river sections, dead end sloughs, requires flooded vegetation for spawning and foraging for young.	Unlikely. Suitable riverine habitat not found at the project site.
San Joaquin coachwhip (<i>Masticophis flagellum ruddocki</i>)	--/SSC	Open, dry habitats with little or no tree cover. Found in valley grassland and saltbush scrub in the San Joaquin Valley. Requires mammal burrows for refuge and oviposition sites.	Unlikely. Suitable undisturbed habitat not found at the project site.
San Joaquin kit fox (<i>Vulpes macrotis mutica</i>)	FE/ST	Annual grasslands or grassy open stages with scattered shrubby vegetation. Needs loose-textured sandy soils for burrowing, and suitable prey base.	Low potential to occur on project site due to presence of marginally suitable habitat. CNDDDB occurrences recorded within the project site vicinity.
Steelhead (<i>Oncorhynchus mykiss irideus</i>)	FT/--	Coastal stream with clean spawning gravel. Requires cool water and pools. Needs migratory access between natal stream and ocean.	Unlikely. Suitable riverine habitat not found at the project site.
Swainson's hawk (<i>Buteo swainsoni</i>)	--/ST	Breeds in grasslands with scattered trees, juniper-sage flats, riparian areas, savannahs, and agricultural or ranch lands with groves or lines of trees. Requires adjacent suitable foraging areas, such as grasslands or agricultural fields supporting rodent populations.	Low potential to occur on project site due to presence of marginally suitable habitat. CNDDDB occurrences recorded within the project site vicinity.

Species	Status (Federal/State)	Suitable Habitat Description	Potential to Occur on Project Site
Tricolored blackbird (<i>Agelaius tricolor</i>)	--/SE	Areas adjacent to open water with protected nesting substrate, which typically consists of dense, emergent freshwater marsh vegetation.	Unlikely. Suitable marsh habitat not found at the project site.
Valley elderberry longhorn beetle (<i>Desmocerus californicus dimorphus</i>)	FT/--	Elderberry shrubs, usually in Central Valley riparian habitats.	Unlikely. Suitable riparian habitat not found at the project site.
Vernal pool fairy shrimp (<i>Branchinecta lynchi</i>)	FT/--	Endemic to the grasslands of the Central Valley, Central Coast Mtns., and South Coast Mtns. in astatic rain-filled pools. Inhabits small, clear-water sandstone depression pools and grass swale, earth slump, or basalt-flow depression pools.	Unlikely. Suitable vernal pool habitat not found at the project site.
Vernal pool tadpole shrimp (<i>Lepidurus packardii</i>)	FE/--	Inhabits vernal pools and swales in the Sacramento Valley containing clear to highly turbid water. Pools commonly found in swales of unplowed grasslands.	Unlikely. Suitable vernal pool habitat not found at the project site.
Western pond turtle (<i>Emys marmorata</i>)	--/SSC	Ponds, marshes, rivers, streams, and irrigation ditches with aquatic vegetation. Needs basking sites (such as rocks or partially submerged logs) and suitable upland habitat for egg-laying (sandy banks or grassy open fields).	Unlikely. Suitable pond or marsh habitat not found at the project site.
Western red bat (<i>Lasiurus blossevillii</i>)	--/SSC	Roosts primarily in trees, 2-40 feet above the ground, from sea level up through mixed conifer forests. Prefers habitat edges and mosaics with trees that are protected from above and open below with open areas for foraging.	Low potential to occur on project site due to presence of marginally suitable habitat. CNDDDB occurrences recorded within the project site vicinity.
Western spadefoot (<i>Spea hammondi</i>)	--/SSC	Occurs primarily in grassland habitats, but can be found in valley-foothill hardwood woodlands, breeds in winter and spring (January - May) in quiet streams and temporary pools.	Unlikely. Suitable undisturbed grassland habitat not found at the project site.

SOURCE: CDFW 2022

NOTE: Status Codes:

Federal (USFWS)

FE: Listed as Endangered under the Federal Endangered Species Act.

FT: Listed as Threatened under the Federal Endangered Species Act.

FC: A Candidate for listing as Threatened or Endangered under the Federal Endangered Species Act.

FSC: Species of Special Concern.

FD: Delisted under the Federal Endangered Species Act.

State (CDFW)

SE: Listed as Endangered under the California Endangered Species Act.

ST: Listed as Threatened under the California Endangered Species Act.

SR: Listed as Rare under the California Endangered Species Act.

SC: A Candidate for listing as Threatened or Endangered under the California Endangered Species Act.

SSC: Species of Special Concern.

SFP: Fully Protected species under the California Fish and Game Code.

SD: Delisted under the California Endangered Species Act.
