FLEWELLING & MOODY

architects *for* education

BID CLARIFICATION NO. 1

January 6, 2025

The following changes and/or clarifications shall be made to the drawings and specifications and all other conditions shall remain the same. All changes and/or clarifications provided shall be included in the scope of contracted work. Pursuant to PR13-01 all work that requires approval by the DSA shall not begin until said approvals are obtained.

A. **DRAWINGS:**

1. **Add** the following sheets to the set of project contract documents. The purpose of the bid clarification sheets is to delineate the 'Bid Alternate #01' scope of work from the base bid:

    a. C1.01 – Cover Sheet – Bid Clarification No. 1 – 01/06/2025
    b. C2.01 – Erosion Control Plan – Bid Clarification No. 1 – 01/06/2025
    c. C3.01 – Grading, Drainage and Paving Plan – Bid Clarification No. 1 – 01/06/2025
    d. C3.02 – Grading, Drainage and Paving Plan – Bid Clarification No. 1 – 01/06/2025
    e. C3.03 – Grading, Drainage and Paving Plan – Bid Clarification No. 1 – 01/06/2025
    f. C3.04 – Grading, Drainage and Paving Plan – Bid Clarification No. 1 – 01/06/2025
    g. C4.01 – Details – Bid Clarification No. 1 – 01/06/2025
    h. C4.02 – Details – Bid Clarification No. 1 – 01/06/2025
    i. L2.01 – Irrigation Plan – Bid Clarification No. 1 – 01/06/2025
    j. L2.02 – Irrigation Legends & Notes Plan – Bid Clarification No. 1 – 01/06/2025
        1. The revisions shown is to provide a new Rain Bird (36) station automatic controller assembly to be incorporated and made part of this contract.

Matt Buchanan

Flewelling & Moody, Inc.

CIVIL IMPROVEMENTS FOR TROPICO MIDDLE SCHOOL LANDSCAPE & DRAINAGE PROJECT IN THE CITY OF ROSAMOND, CA

SURVEY NOTE

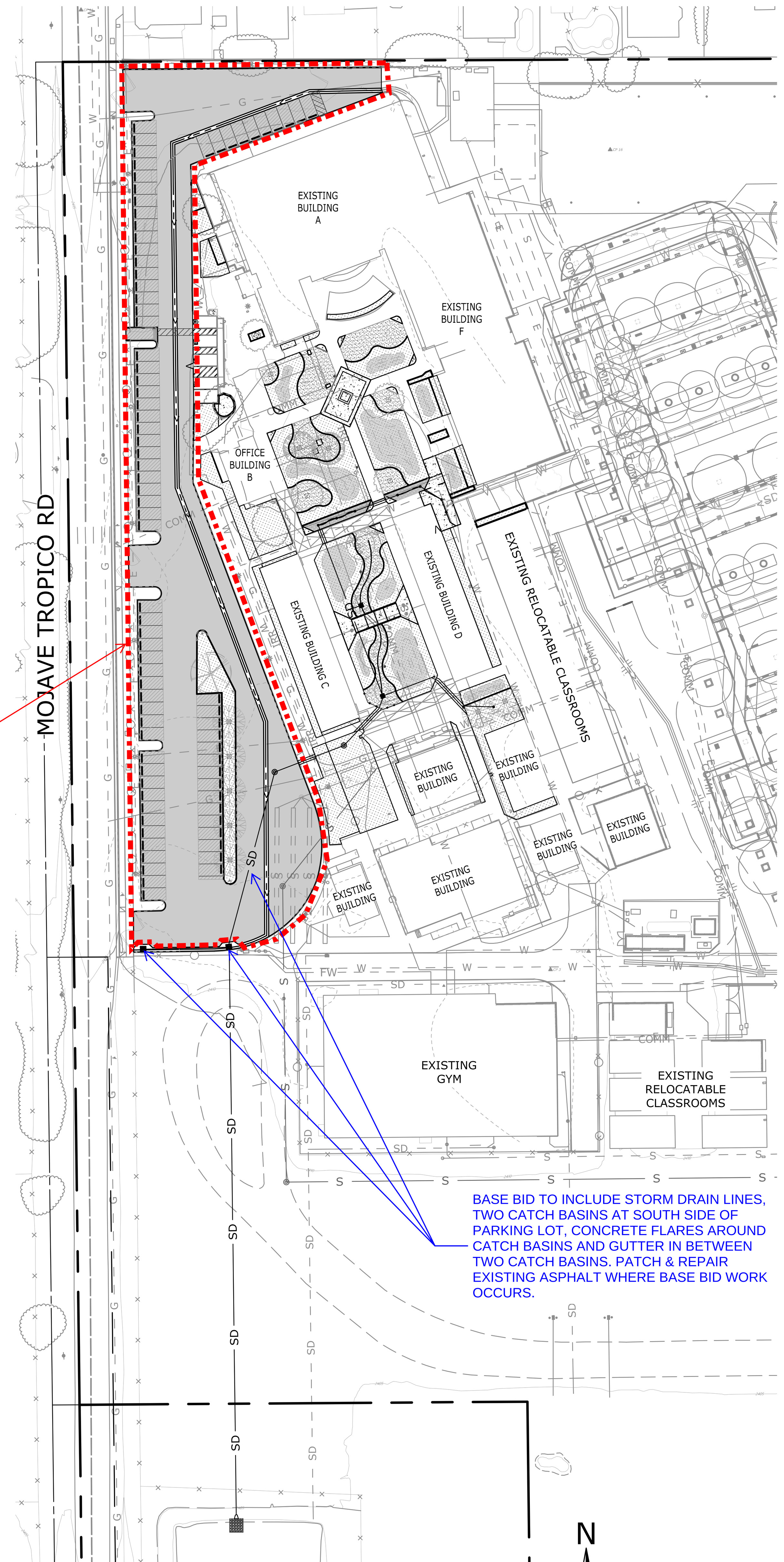
THE BASIS OF BEARINGS, COORDINATES, AND ELEVATIONS ARE ARE BASED ON THE TROPICO MIDDLE SCHOOL EXPANSION PROJECT SHEET C1.01 DATED 08-03-22.

LEGEND

Symbol	Description
	SAWCUT LINE
2410	PROPOSED MAJOR CONTOURS
2409	PROPOSED MINOR CONTOURS
SD	PROPOSED STORM DRAIN LINE
GB	PROPOSED GRADE BREAK
	EXISTING RIGHT OF WAY/PROPERTY LINE
	EXISTING CENTERLINE
	EXISTING FENCE
	EXISTING WALL
2410	EXISTING INTERMEDIATE CONTOURS
2409	EXISTING INDEX CONTOURS
	EXISTING EDGE OF ASPHALT PAVEMENT
OHW	EXISTING OVER HEAD WIRE
E	EXISTING ELECTRICAL LINE
G	EXISTING GAS LINE
W	EXISTING WATER LINE
SD	EXISTING STORM DRAIN LINE
FW	EXISTING FIREWATER LINE
S	EXISTING SEWER LINE
COMM	EXISTING COMMUNICATION LINE
2410.00 FS	PROPOSED ELEVATION
(2410.00) EG	EXISTING ELEVATION
1.5%	PROPOSED GRADE
	STORM DRAIN INLET
	PROPOSED DRIVE AISLE AC PAVING
	PROPOSED PARKING STALL AC PAVING
	PROPOSED CONCRETE PAVING
	PROPOSED LANDSCAPE AREA
	PROPOSED DECOMPOSED GRANITE
	PROPOSED MORTARED COBBLE
	PROPOSED LANDSCAPE MOUND

Know what's below. Call before you dig.

BID ALTERNATE #1
SCOPE OF WORK SHALL INCLUDE THE COMPLETE DEMO AND INSTALLATION OF THE ENTIRE PARKING LOT INCLUDING ALL THE DRIVE AISLES. SCOPE OF WORK SHALL INCLUDE BUT NOT LIMITED TO THE REMOVAL OF ALL SPOILS FROM THE EXISTING AC PARKING AREA AND ALL EXISTING WHEEL STOPS.



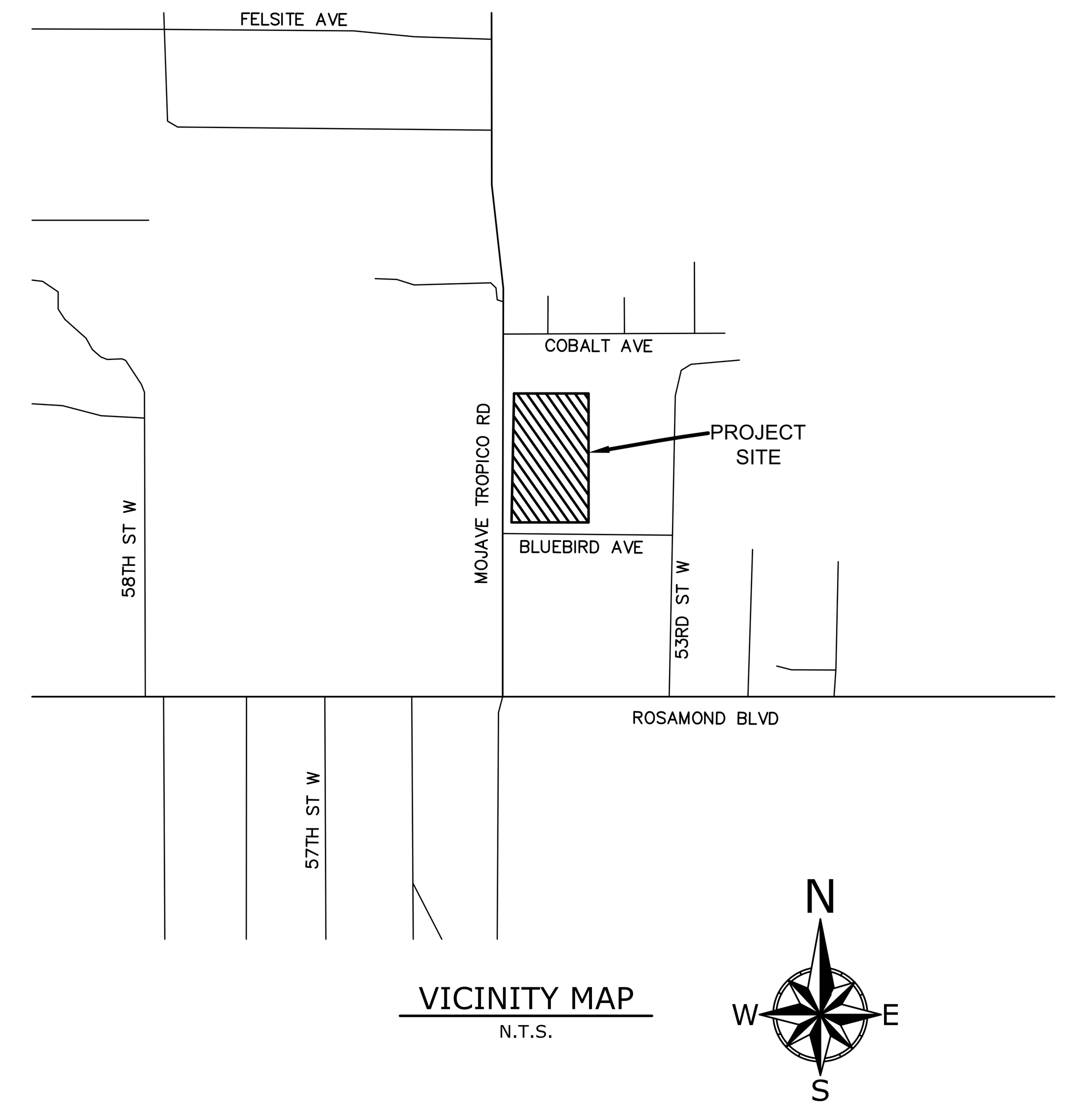
INDEX MAP
SCALE: 1"=60'

ENGINEER'S NOTICE TO CONTRACTOR

THE EXISTENCE AND LOCATION OF ANY UNDERGROUND UTILITY PIPES, CONDUITS OR STRUCTURES SHOWN ON THESE PLANS WAS OBTAINED BY A SEARCH OF THE AVAILABLE RECORDS. TO THE BEST OF OUR KNOWLEDGE, THERE ARE NO EXISTING UTILITIES EXCEPT AS SHOWN ON THESE PLANS. THE CONTRACTOR IS REQUIRED TO TAKE DUE PRECAUTIONARY MEASURES TO PROTECT THE UTILITY LINES SHOWN ON THESE DRAWINGS. THE CONTRACTOR FURTHER ASSUMES ALL LIABILITY AND RESPONSIBILITY FOR THE UTILITY PIPES, CONDUITS OR STRUCTURES SHOWN OR NOT SHOWN ON THESE DRAWINGS. THE CONTRACTOR SHALL POTHOLE ALL EXISTING UTILITIES TO VERIFY THE LOCATION AND ANY DISCREPANCY BETWEEN THE PLANS SHALL BE BROUGHT TO THE ATTENTION OF THE DESIGN ENGINEER.

CONTRACTOR AGREES THAT HE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR THE JOB SITE CONDITION DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY AND THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS. THE CONTRACTOR ALSO AGREES TO DEFEND, INDEMNIFY AND HOLD THE OWNER AND THE ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER OR THE ENGINEER.

JOSIAH D. JENISON	77454 R.C.E.	10/16/2024 DATE



VICINITY MAP
N.T.S.

SHEET INDEX

C1.01	COVER SHEET
C1.02	GENERAL NOTES
C2.01	EROSION CONTROL PLAN
C2.02	EROSION CONTROL DETAILS
C3.01	GRADING, DRAINAGE AND PAVING PLAN
C3.02	GRADING, DRAINAGE AND PAVING PLAN
C3.03	GRADING, DRAINAGE AND PAVING PLAN
C3.04	GRADING, DRAINAGE AND PAVING PLAN
C4.01	DETAILS
C4.02	DETAILS

ABBREVIATIONS

ABBR	ABBREVIATION
A.C.	ASPHALT CONCRETE
A.C.P.	ASBESTOS CONCRETE PIPE
AP	ANGLE POINT
ARCH.	ARCHITECT
ASSOC.	ASSOCIATION
AVE	AVENUE
BC	BEGIN CURVE
BCR	BEGIN CURB RETURN
BDY.	BOUNDARY
BEG	BEGIN
BFP	BACKFLOW PREVENTER
BLDG	BUILDING
BOT	BOTTOM OF PIPE
BS	BOTTOM OF STEP
BVC	BEGIN VERTICAL CURVE
BW	BACK OF WALK OR BOTTOM OF WALL
CB	CATCH BASIN
CBC	CALIFORNIA BUILDING CODE
C-C	CENTER TO CENTER
CF	CURB FACE
CFS	CUBIC FEET PER SECOND
CL	CENTERLINE OR CLASS
CLF	CHAIN LINK FENCE
CLR	CLEAR
CMB	CRUSHED MISCELLANEOUS BASE
CMP	CORRUGATED METAL PIPE
CMU	CONCRETE MASONRY UNIT
CO	CLEANOUT
CONC	CONCRETE
CONT	CONTROL
CPS	CONNECTOR PIPE SCREEN
CT	COURT
DBL	DOUBLE
DES	DESIGN
DG	DECOMPOSED GRANITE
DI	DROP INLET
D.I.	DUCTILE IRON
DIA	DIAMETER
DR	DRIVE
DWG	DRAWING
EASE	EASEMENT
EBAA	EBAA IRON, INC.
EC	END CURVE
ECR	END CURB RETURN
EG	EXISTING GROUND
ELEC	ELECTRIC
ELEV	ELEVATION
E'LY	EASTERLY
ELLIP	ELLIPTICAL
EP	EDGE OF PAVEMENT
ESMT	EASEMENT
EVC	END VERTICAL CURVE
EQ	EQUIVALENT
FED.	FEDERAL
FF	FINISHED FLOOR

FG	FINISH GRADE
FL	FLOWLINE
FS	FINISHED SURFACE
FT/S	FEET PER SECOND
FUT	FUTURE
GB	GRADE BREAK
GF	GARAGE FLOOR
GM	GAS METER
G.P.	GRADING PERMIT
GV	GAS VALVE
HGL	HYDRAULIC GRADE LINE
HOA	HOME OWNERS ASSOCIATION
HORZ.	HORIZONTAL
HP	HIGH POINT
HPS	HIGH PRESSURE SODIUM
HW	HEADWALL
ICP	INTERLOCKING CONCRETE PAVERS
ICV	IRRIGATION CONTROL VALVE
INT.	INTERSECTION
INV	INVERT
IRR	IRRIGATION
LAT	LATERAL
LDM	LAND DEVELOPMENT MANUAL
LDSP	LANDSCAPE
LF	LINEAR FEET
LN	LANE
LP	LOW POINT
LT	LEFT
MAX	MAXIMUM
MH	MANHOLE
MIN	MINIMUM
MOC	MIDDLE OF CURVE
N'LY	NORTHERLY
NO.	NUMBER
N.T.S.	NOT TO SCALE
O.C.	ON CURB OR ON CURVE OR ON CENTER
OHW	OVERHEAD WIRE
PB	PULL BOX
P.C.C.	PORTLAND CEMENT CONCRETE OR POINT OF COMPOUND CURVE
PI	POINT OF INTERSECTION
P/L	PROPERTY LINE
PMB	PROCESSED MISC. BASE
POC	POINT OF CONNECTION
PRC	POINT OF REVERSE CURVE
PT	POINT
PTDF	PRESSURE TREATED DOUGLAS FIR
PUB	PUBLIC
PVC	POLYVINYL CHLORIDE
PVMT	PAVEMENT
PVT	PRIVATE
RCB	REINFORCED CONCRETE BOX
RCP	REINFORCED CONCRETE PIPE
RD	ROAD
RET	RETAINING
RWGV	RESILIENT WEDGE GATE VALVE

R.O.W.	RIGHT OF WAY
RPD	RESIDENTIAL PLANNED DEVELOPMENT
RT	RIGHT
RW	RECLAIMED WATER
R/W	RIGHT OF WAY
SCE	SOUTHERN CALIFORNIA EDISON
SCO	SEWER CLEAN OUT
SD	STORM DRAIN
SDMH	STORM DRAIN MANHOLE
SDR	STANDARD DIMENSION RATIO
S.E.	SAND EQUIVALENT
SF	SQUARE FOOT/FEET
SHT	SHEET
SHTS	SHEETS
S.L.	SEWER LATERAL
SLDS	STANDARD LAND DEVELOPMENT SPECIFICATIONS
S'LY	SOUTHERLY
SMH	SEWER MANHOLE
S.N.S.	STREET NAME SIGN
SPPWC	STANDARD PLANS FOR PUBLIC WORKS CONSTRUCTION
SS	SANITARY SEWER
SSPWC	STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION
ST	STREET
STD	STANDARD
SW	SIDEWALK
SWCT	SAWCUT
TC	TOP OF CURB
TEL	TELEPHONE
TG	TOP OF GRATE
TF	TOP OF FOOTING
TI	TRAFFIC INDEX
TMH	TELEPHONE MANHOLE
TOE	TOE OF SLOPE
TOP	TOP OF SLOPE OR PIPE
TPL	TRIPLE
TR	TRACT
TS	TOP OF STEP
TW	TOP OF WALL
TYP	TYPICAL
UG	UNDERGROUND
VAR	VARIES
V.C.	VERTICAL CURVE
VERT.	VERTICAL
VLT	VAULT
VLV	VALVE
W	WATER
W'LY	WESTERLY
WM	WATER METER
WSEL	WATER SURFACE ELEVATION
WV	WATER VALVE
W.W.M.	WELDED WIRE MESH
YR	YEAR

NOTE: THE INTENT OF THIS DRAWING IS TO INDICATE ONLY THE REVISIONS SHOWN WITHIN THE 'RED DASHED AREAS' AS BID ALTERNATE #1. ALL ADDITIONAL 'BASE BID' NOTES SHOWN WITH A 'BLUE TEXT' SHALL HEREBY BE MADE PART OF THE CONTRACT. ALL OTHER WORK SHALL REMAIN UNCHANGED PER THE DSA APPROVED DOCUMENTS, (A#03-124766, DATED 12/04/2024)

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LICENSED ARCHITECT MATTHEW BUCHANAN C-26053 Ren. Date 08/31/2025 STATE OF CALIFORNIA

CONSULTANT

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Revisions

No.	Date	Description

All dimensions must be checked at the job by the contractor who accepts full responsibility for their accuracy under the contract. These plans & the specifications in connection therewith have been prepared for a specific site. Any and all responsibility for their use in whole or in part on any other site is hereby disclaimed by Flewelling & Moody.

SOUTHERN KERN UNIFED SCHOOL DISTRICT

TROPICO MIDDLE SCHOOL LANDSCAPE & DRAINAGE PROJECT

3180 MOJAVE TROPICO ROAD
ROSAMOND, CA 93560

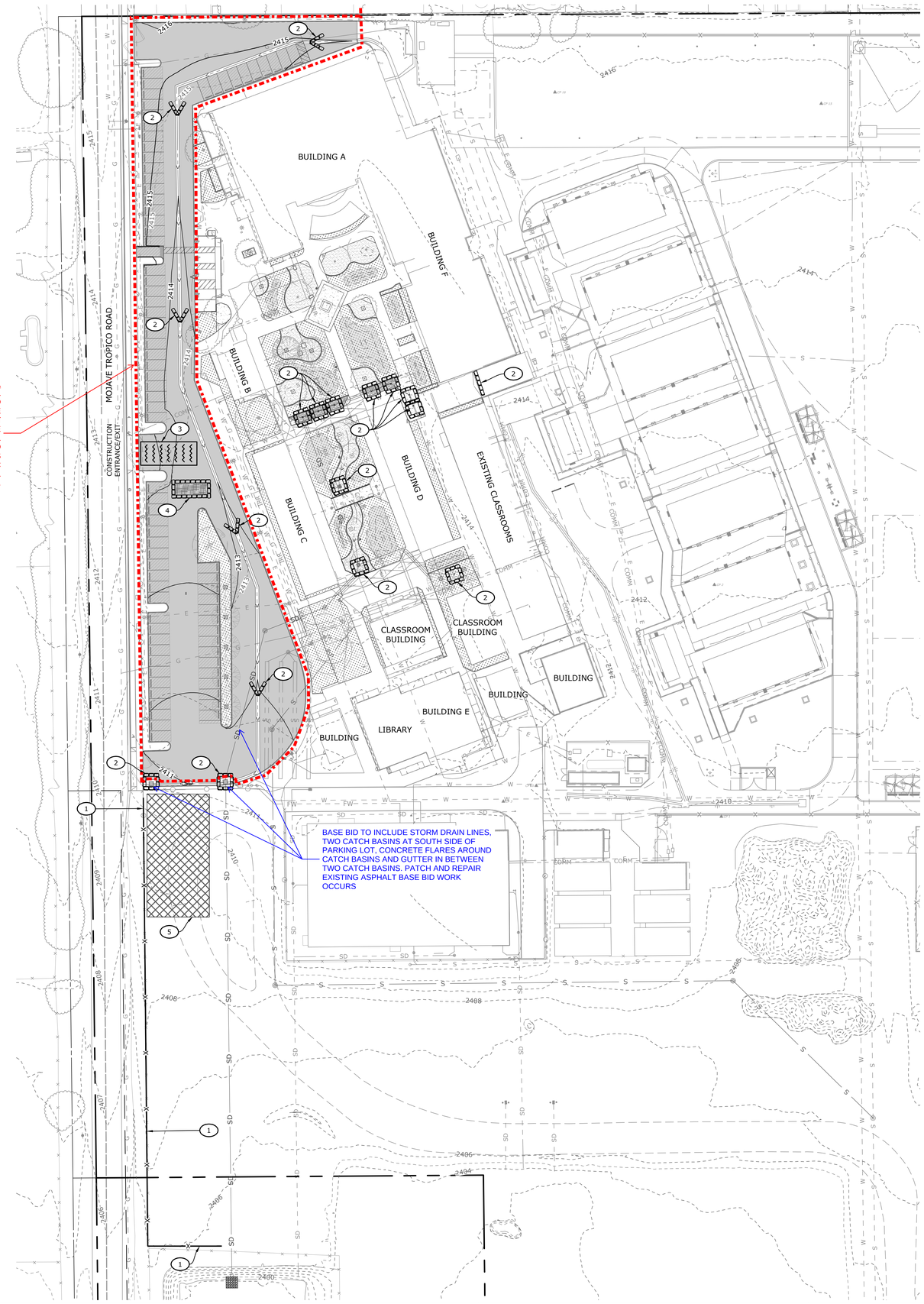
COVER SHEET

Job No. 2940.400

Date 10-16-2024

C1.01

BID CLARIFICATION NO. 1 - 01/06/2025



EROSION CONTROL CONSTRUCTION NOTES

1. CONSTRUCT SILT FENCE PER STD. PLATE BMP-10 IN CURRENT KERN COUNTY DEVELOPMENT STANDARDS (DETAIL ON SHEET C2.02) PRIOR TO AND DURING GRADING.
2. CONSTRUCT TEMPORARY GRAVEL BAG CHECK DAM OR CATCH BASIN SEDIMENT BARRIER PER STD. PLATE BMP-1 IN CURRENT KERN COUNTY DEVELOPMENT STANDARDS (DETAIL ON SHEET C2.02). ALL GRAVEL BAGS MUST BE IN PLACE DURING PROJECT CONSTRUCTION.
3. CONSTRUCT "RUMBLE RACKS" AT ALL CONSTRUCTION SITE ENTRANCES AND EXITS (MINIMUM 30-FEET BY 12-FEET WIDE) PER STD. PLATE BMP-3 THROUGH BMP-5 IN CURRENT KERN COUNTY DEVELOPMENT STANDARDS (DETAILS ON SHEET C2.02). RECOMMENDED LOCATIONS SHOWN. CONTRACTOR TO SUBMIT FINAL LOCATION TO OWNER FOR APPROVAL PRIOR TO CONSTRUCTION.
4. PROPOSED CONCRETE WASH-OFF AREA PER STD. PLATE BMP-8 IN CURRENT KERN COUNTY DEVELOPMENT STANDARDS (DETAIL ON SHEET C2.02). WASH-OFF AREA SHALL BE IN PLACE AT ALL TIMES DURING GRADING AND PAVING OPERATIONS. CONTRACTOR SHALL NOT TRACK SOLIDS OR CONCRETE WASH OUT OR DEBRIS ON PUBLIC ROADWAYS. RECOMMENDED LOCATION SHOWN. CONTRACTOR SHALL SUBMIT FINAL LOCATION TO OWNER FOR APPROVAL PRIOR TO CONSTRUCTION.
5. PROPOSED STOCKPILE AND MATERIAL STORAGE AREA PER STD. PLATE BMP-7 IN CURRENT KERN COUNTY DEVELOPMENT STANDARDS (DETAIL ON SHEET C2.02).

N
W E
S

SCALE: 1"=40'
0 40 80 120

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SOUTHERN KERN UNIFED SCHOOL DISTRICT

TROPICO MIDDLE SCHOOL LANDSCAPE & DRAINAGE PROJECT

3180 MOJAVE TROPICO ROAD
ROSAMOND, CA 93560

EROSION CONTROL PLAN

Job No. 2940.400

Date 10-16-2024

C2.01

BID CLARIFICATION NO. 1 - 01/06/2025

GRADING AND DRAINAGE CONSTRUCTION NOTES

1. SAWCUT PCC OR AC PAVEMENT TO LIMITS SHOWN.
2. CONSTRUCT DRIVE AISLE AC PAVEMENT (4" AC OVER 4.5" CAB) PER DETAIL "A" ON SHEET C4.01.
3. CONSTRUCT PCC WALKWAY (4" THICK) PER DETAIL "B" ON SHEET C4.01. COLOR, PATTERN AND FINISH PER LANDSCAPE ARCHITECT'S PLAN.
4. CONSTRUCT LANDSCAPING PER LANDSCAPE ARCHITECT'S PLAN.
5. CONSTRUCT DECOMPOSED GRANITE PER ARCHITECT'S PLAN.
6. CONSTRUCT 0" MOW CURB PER LANDSCAPE ARCHITECT'S PLAN.
7. CONSTRUCT CONCRETE BRIDGE, CURBS AND HANDRAILS PER ARCHITECT'S PLAN.
8. CONTRACTOR TO ADJUST ALL EXISTING UTILITY LIDS/COVERS WITHIN PROJECT LIMITS TO FINISH SURFACE ELEVATION.
9. CONSTRUCT TREE PER LANDSCAPE ARCHITECT'S PLAN.
10. CONSTRUCT MORTARED COBBLE PER LANDSCAPE ARCHITECT'S PLAN.
11. CONSTRUCT FLARED END PIPE OUTLET.
12. CONSTRUCT 6" CURB (TYPE A1-6) PER SPPWC STANDARD PLAN 120-2.
13. CONSTRUCT 8" SDR 35 PVC PIPE PER GRAVITY PIPE TRENCH DETAIL "F" ON SHEET C4.01 AND DETAIL "K" ON SHEET C4.02. INSTALL ALL FITTINGS, ELBOWS, WYES AND TEES NECESSARY TO CONSTRUCT STORM DRAIN SYSTEM AS SHOWN.
14. CONSTRUCT 10" SDR 35 PVC PIPE PER GRAVITY PIPE TRENCH DETAIL "F" ON SHEET C4.01 AND DETAIL "K" ON SHEET C4.02. INSTALL ALL FITTINGS, ELBOWS, WYES AND TEES NECESSARY TO CONSTRUCT STORM DRAIN SYSTEM AS SHOWN.
15. CONSTRUCT 12" SDR 35 PVC PIPE PER GRAVITY PIPE TRENCH DETAIL "F" ON SHEET C4.01 AND DETAIL "K" ON SHEET C4.02. INSTALL ALL FITTINGS, ELBOWS, WYES AND TEES NECESSARY TO CONSTRUCT STORM DRAIN SYSTEM AS SHOWN.
16. CONSTRUCT 12" NYLOPLAST DRAIN BASIN 2812AG WITH 12" SQUARE STANDARD GRATE 1299CGS OR APPROVED EQUAL.
17. CONSTRUCT 12" NYLOPLAST DRAIN BASIN 2812AG WITH 12" SQUARE PEDESTRIAN HEEL PROOF GRATE 1299CGP OR APPROVED EQUAL.
18. CONSTRUCT 24"X24" BROOKS PRECAST CATCH BASIN OR APPROVED EQUAL WITH PEDESTRIAN RATED GRATE.
19. CONSTRUCT STORM DRAIN MANHOLE PER SPPWC STD PLAN 321-2. SEE DETAIL "G" ON SHEET C4.01.
20. CONSTRUCT STORM DRAIN CLEANOUT PER SPPWC STD PLAN 204-2 (MODIFIED TO BE NON-TERMINAL WHERE SHOWN ON PLAN). SEE DETAIL "H" ON SHEET C4.02.
21. CONSTRUCT LANDSCAPED BERM AS SHOWN.
22. CONSTRUCT EARTHEN FLOWLINE AT 1.0% MINIMUM SLOPE PER PLAN.
23. CONSTRUCT 2' WIDE, 8" TALL RECTANGULAR CULVERT UNDER WALKWAY PER ARCHITECT'S PLAN.
24. RECONSTRUCT CONCRETE CURB TO MATCH EXISTING.
25. CONSTRUCT GUARDRAIL PER ARCHITECT'S PLAN.
26. CONTRACTOR TO POTHOLE AND FIELD VERIFY ALL EXISTING UTILITY CROSSINGS PRIOR TO CONSTRUCTION AND NOTIFY ENGINEER OF ANY CONFLICTS.
27. CONSTRUCT 10'X10' GROUTED RIP RAP PER DETAIL "J" ON SHEET C4.02.
28. CONSTRUCT PARKING STALL AC PAVEMENT (3" AC OVER 4" CAB) PER DETAIL "L" ON SHEET C4.02.
29. CONSTRUCT 3' WIDE CONCRETE RIBBON GUTTER PER DETAIL "N" ON SHEET C4.02
30. CONSTRUCT 4" WIDE WHITE STRIPE AS SHOWN.
31. CONSTRUCT 4" WIDE BLUE STRIPING AS SHOWN.
32. CONSTRUCT TRUNCATED DOMES PER CALTRANS STD PLAN A88A.
33. CONSTRUCT WHEEL STOP PER DETAIL "M" ON SHEET C4.02.
34. CONSTRUCT VARIABLE HEIGHT CONCRETE CURB (TYPE A1-6) MODIFIED PER SPPWC STANDARD PLAN 120-2. CURB HEIGHTS PER PLAN. SEE DETAIL "O" ON SHEET C4.02.
35. CONSTRUCT 36"X36" BROOKS PRECAST CATCH BASIN OR APPROVED EQUAL WITH TRAFFIC RATED GRATE. CONSTRUCT GUTTER FLARE AROUND CATCH BASIN PER GUTTER FLARE DETAIL ON SHEET C3.03.
36. CONSTRUCT 18" HDPE (N-12 WT) PIPE PER GRAVITY PIPE TRENCH DETAIL "F" ON SHEET C4.01 AND DETAIL "K" ON SHEET C4.02. INSTALL ALL FITTINGS, ELBOWS, WYES AND TEES NECESSARY TO CONSTRUCT STORM DRAIN SYSTEM AS SHOWN.

GENERAL NOTE

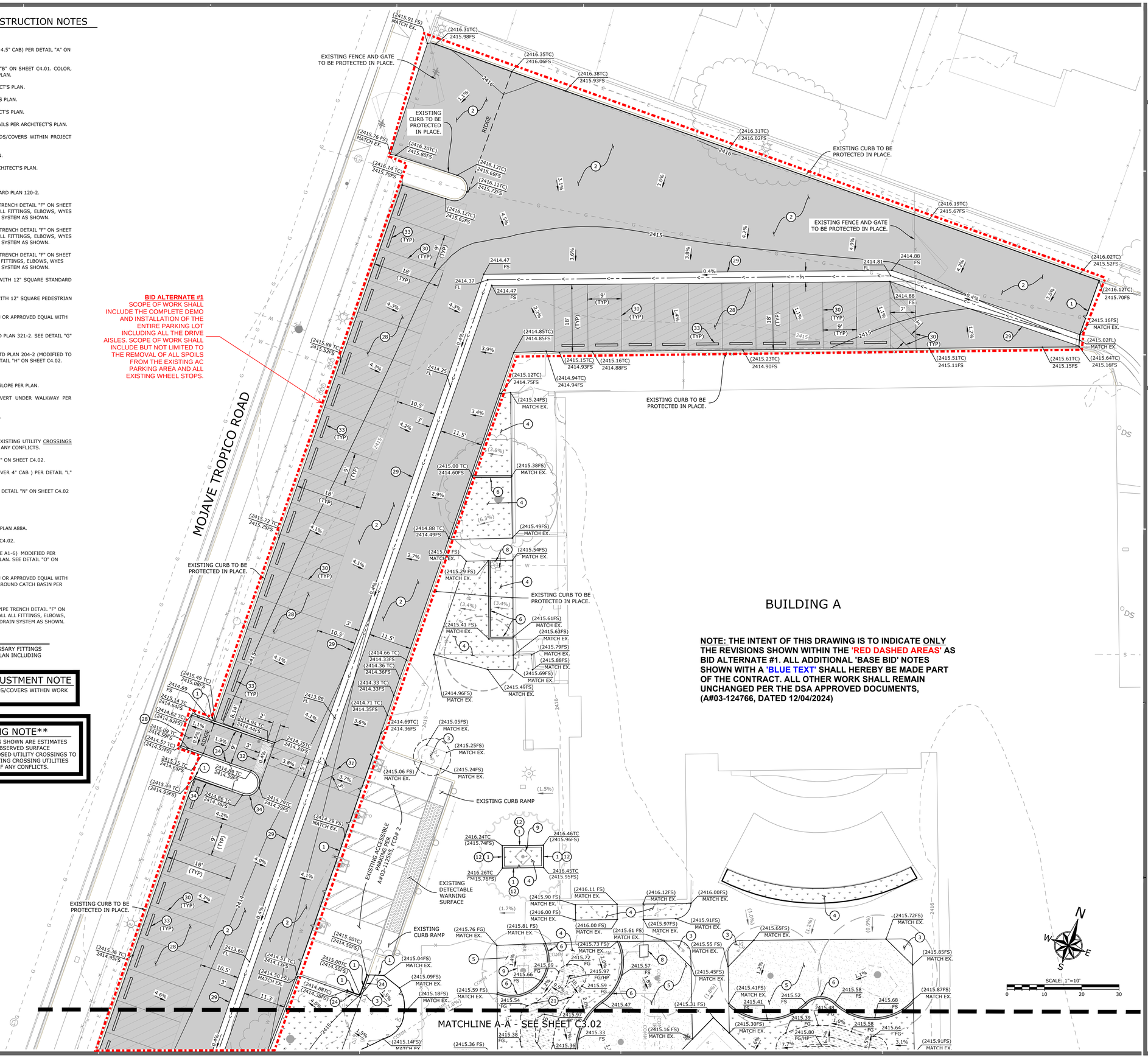
CONTRACTOR TO FURNISH AND INSTALL ALL NECESSARY FITTINGS TO CONSTRUCT UTILITY SYSTEMS AS SHOWN ON PLAN INCLUDING ECCENTRIC TEES/WYES WHERE NEEDED.

EXISTING UTILITY COVER ADJUSTMENT NOTE

CONTRACTOR TO ADJUST ALL EXISTING UTILITY LIDS/COVERS WITHIN WORK AREA TO FINISH SURFACE ELEVATION.

EXISTING UTILITY CROSSING NOTE

LOCATION, SIZE AND DEPTH OF EXISTING UTILITIES SHOWN ARE ESTIMATES ONLY AND WERE BASED ON AS-BUILT PLANS AND OBSERVED SURFACE EVIDENCE. CONTRACTOR SHALL POTHOLE AT PROPOSED UTILITY CROSSINGS TO FIELD VERIFY LOCATION, SIZE, DEPTH OF ALL EXISTING CROSSING UTILITIES PRIOR TO CONSTRUCTION AND NOTIFY ENGINEER OF ANY CONFLICTS.



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TROPICO MIDDLE SCHOOL LANDSCAPE & DRAINAGE PROJECT

3180 MOJAVE TROPICO ROAD ROSAMOND, CA 93560

GRADING, DRAINAGE AND PAVING PLAN

Job No. 2940.400

Date 10-16-2024

C3.01

BID CLARIFICATION NO. 1 - 01/06/2025

GRADING AND DRAINAGE CONSTRUCTION NOTES

1. SAWCUT PCC OR AC PAVEMENT TO LIMITS SHOWN.
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13. CONSTRUCT 8" SDR 35 PVC PIPE PER GRAVITY PIPE TRENCH DETAIL "F" ON SHEET C4.01 AND DETAIL "K" ON SHEET C4.02. INSTALL ALL FITTINGS, ELBOWS, WYES AND TEES NECESSARY TO CONSTRUCT STORM DRAIN SYSTEM AS SHOWN.
14. CONSTRUCT 10" SDR 35 PVC PIPE PER GRAVITY PIPE TRENCH DETAIL "F" ON SHEET C4.01 AND DETAIL "K" ON SHEET C4.02. INSTALL ALL FITTINGS, ELBOWS, WYES AND TEES NECESSARY TO CONSTRUCT STORM DRAIN SYSTEM AS SHOWN.
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19. CONSTRUCT STORM DRAIN MANHOLE PER SPPWC STD PLAN 321-2. SEE DETAIL "G" ON SHEET C4.01.
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22. CONSTRUCT EARTHEN FLOWLINE AT 1.0% MINIMUM SLOPE PER PLAN.
23. CONSTRUCT 2' WIDE, 8" TALL RECTANGULAR CULVERT UNDER WALKWAY PER ARCHITECT'S PLAN.
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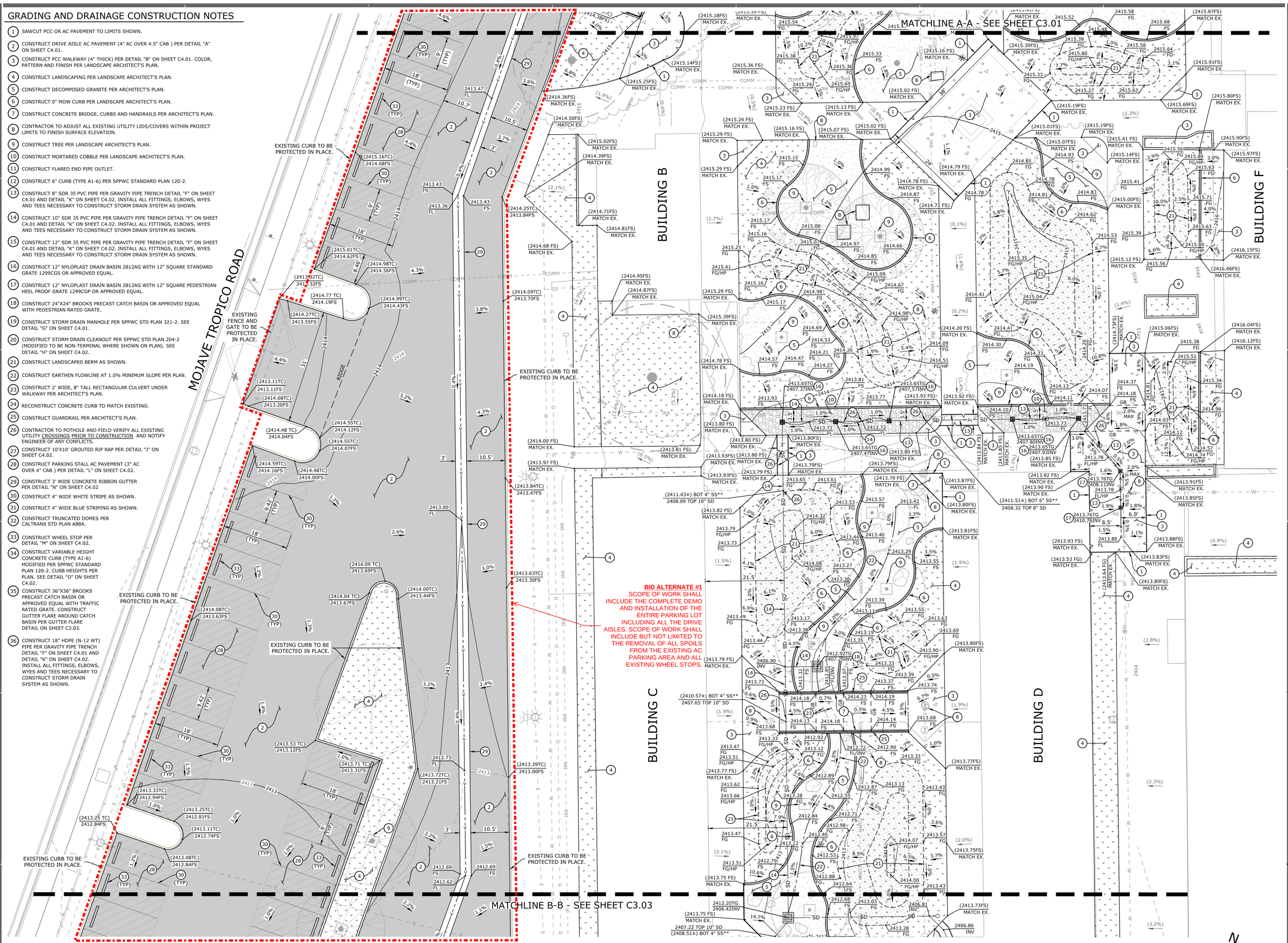
36. CONSTRUCT 18" HDPE (N-12 WT) PIPE PER GRAVITY PIPE TRENCH DETAIL "F" ON SHEET C4.01 AND DETAIL "K" ON SHEET C4.02. INSTALL ALL FITTINGS, ELBOWS, WYES AND TEES NECESSARY TO CONSTRUCT STORM DRAIN SYSTEM AS SHOWN.



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SCALE: 1"=10'
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SOUTHERN KERN UNIFED SCHOOL DISTRICT

TROPICO MIDDLE SCHOOL LANDSCAPE & DRAINAGE PROJECT

3180 MOJAVE TROPICO ROAD
ROSAMOND, CA 93560

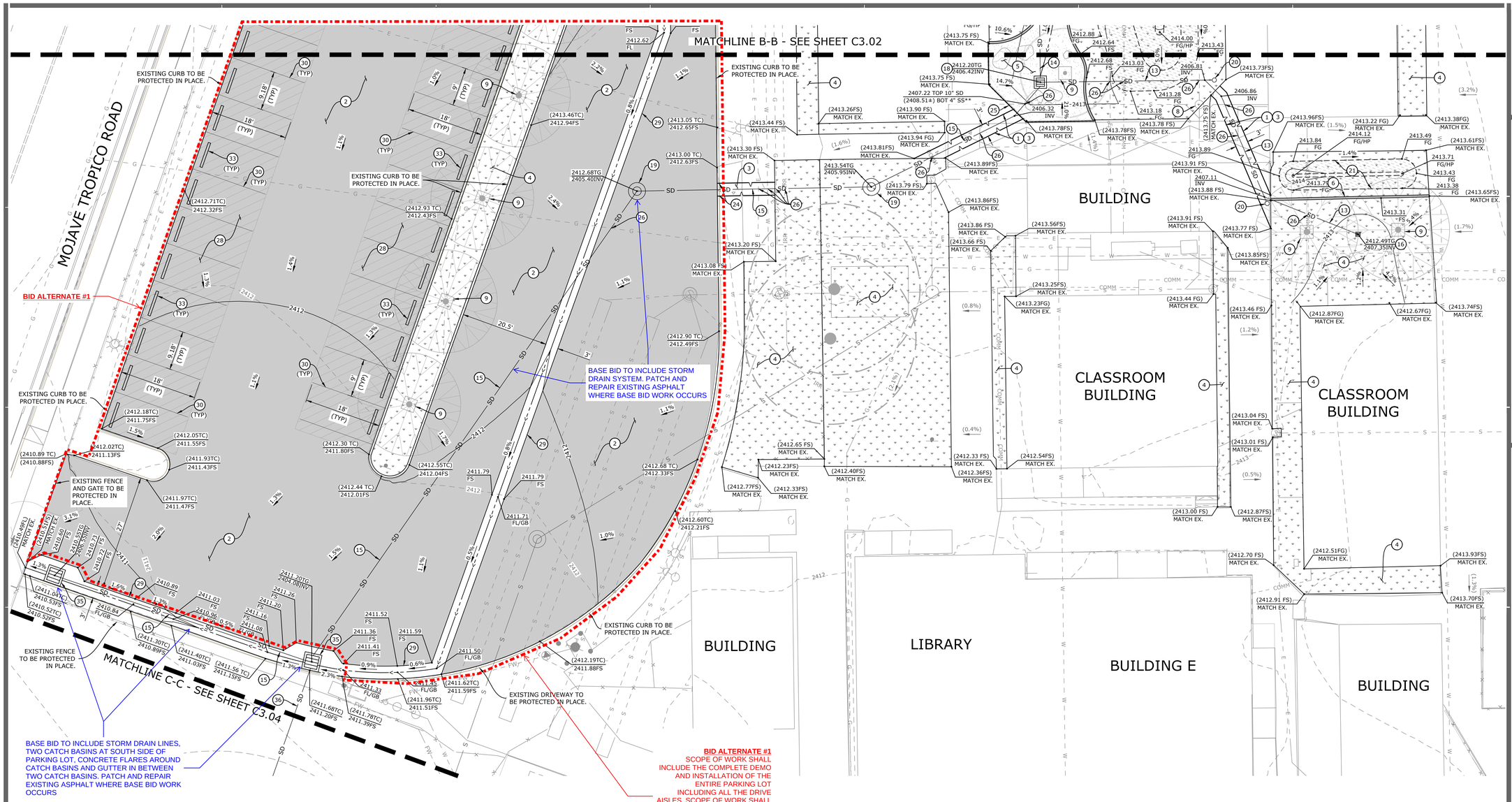
GRADING, DRAINAGE AND PAVING PLAN

Job No. 2940.400

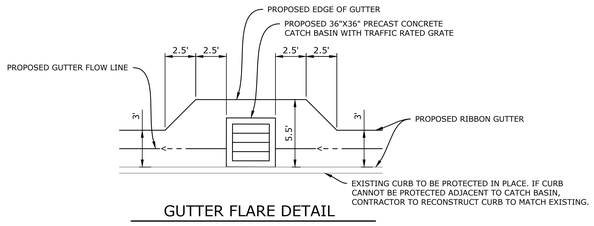
Date 10-16-2024

C3.02

BID CLARIFICATION NO. 1 - 01/06/2025



BID ALTERNATE #1
SCOPE OF WORK SHALL INCLUDE THE COMPLETE DEMO AND INSTALLATION OF THE ENTIRE PARKING LOT INCLUDING ALL THE DRIVE AISLES. SCOPE OF WORK SHALL INCLUDE BUT NOT LIMITED TO THE REMOVAL OF ALL SPOILS FROM THE EXISTING AC PARKING AREA AND ALL EXISTING WHEEL STOPS.



GUTTER FLARE DETAIL

SCALE: 1"=5'

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SOUTHERN KERN UNIFIED SCHOOL DISTRICT

TROPICO MIDDLE SCHOOL LANDSCAPE & DRAINAGE PROJECT

3180 MOJAVE TROPICO ROAD
ROSAMOND, CA 93560

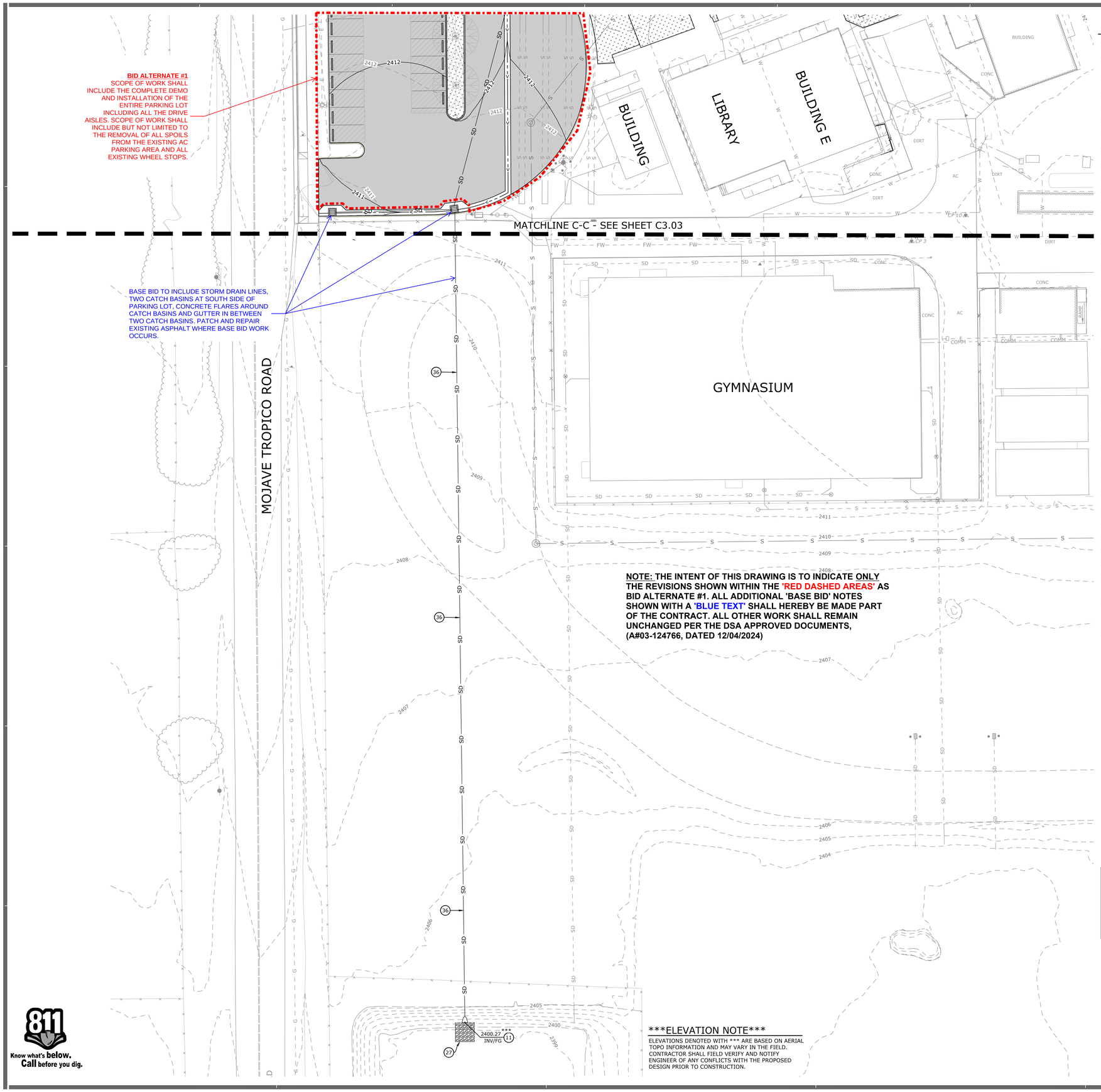
GRADING, DRAINAGE AND PAVING PLAN

Job No. 2940.400

Date 10-16-2024

C3.03

BID CLARIFICATION NO. 1 - 01/06/2025



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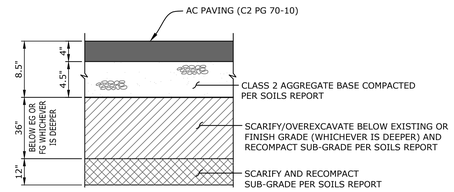
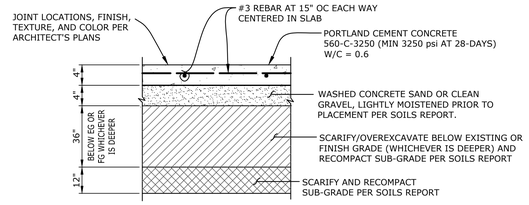
BID ALTERNATE #1



DRIVE AISLE AC PAVEMENT SECTION TI = 7 (A)

SCALE: N.T.S.

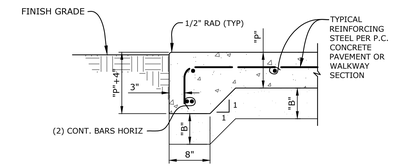


NOTES:

1. CONSTRUCT THICKENED EDGE AT WALKWAY PERIMETER PER DETAIL "C" THIS SHEET.
2. SAWCUT OR TOOLED CRACK CONTROL JOINTS PER DETAIL "D" THIS SHEET.
3. CONSTRUCT EXPANSION JOINTS PER DETAIL "E" THIS SHEET.
4. SECTION IS ESTIMATE ONLY. SOILS ENGINEER TO GIVE FINAL RECOMMENDATION BASED ON R-VALUE TEST RESULTS TAKEN PRIOR TO CONSTRUCTION.

PCC WALKWAY PAVEMENT SECTION (B)

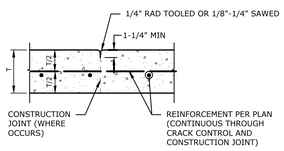
SCALE: N.T.S.



"P"= PORTLAND CEMENT CONCRETE THICKNESS (INCHES)
"B"= BASE LAYER THICKNESS (INCHES)

PCC PAVEMENT OR WALKWAY THICKENED EDGE (C)

SCALE: N.T.S.

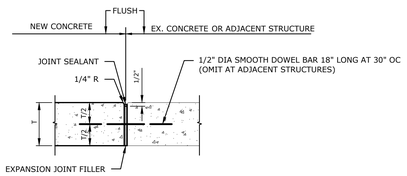


NOTES:

1. SEE SPECIFICATIONS FOR TYPE OF JOINT SEALANT.
2. CONSTRUCTION JOINTS SHALL ONLY BE LOCATED WHERE A CRACK CONTROL JOINT OR OTHER JOINT WOULD OTHERWISE HAVE BEEN REQUIRED.
3. SEE PLAN FOR THICKNESS, T.
4. FOR CRACK CONTROL JOINTS LOCATIONS, SEE ARCH. PLANS.
5. CRACK CONTROL JOINTS TO BE SPACED AT 12' MAX O.C. E.W.

CONSTRUCTION/CRACK CONTROL JOINT (D)

SCALE: N.T.S.

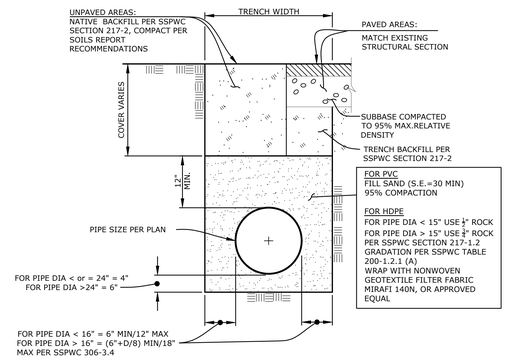


NOTES:

1. SEE SPECIFICATIONS FOR TYPE OF JOINT SEALANT & EXPANSION JOINT FILLER.
2. USE SMOOTH BARS FOR DOWELS COATED TO PREVENT BOND, GREASE END PRIOR TO POUR.
3. SEE PLAN FOR THICKNESS, T.
4. PROVIDE ADEQUATE SUPPORT FOR DOWELS TO ENSURE THEY REMAIN LEVEL WITH FINISH SURFACE.
5. STOP SLAB REINFORCING AT EXPANSION JOINTS.
6. EXPANSION JOINTS TO BE CONSTRUCTED AT ADJACENT STRUCTURES, CURBS AND WALLS.

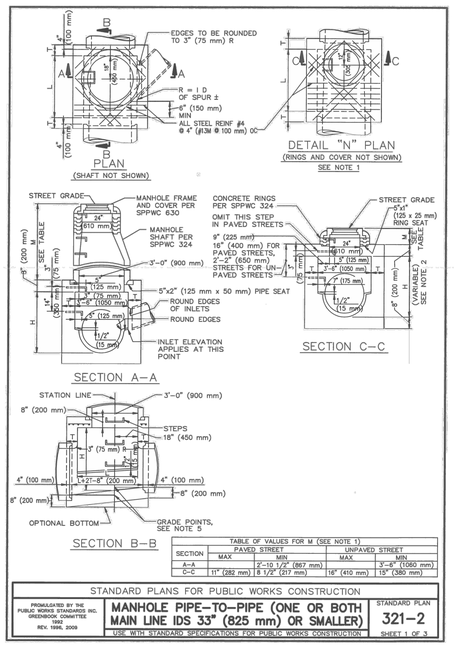
EXPANSION JOINT (E)

SCALE: N.T.S.



TYPICAL PLASTIC GRAVITY PIPE TRENCH (F)

SCALE: N.T.S.



SECTION	TABLE OF VALUES FOR M (SEE NOTE 1)			
	PAVED STREET		UNPAVED STREET	
	MAX	MIN	MAX	MIN
A–A		2'-10 1/2" (867 mm)		3'-8" (1060 mm)
C–C	11" (282 mm)	8 1/2" (217 mm)	16" (410 mm)	15" (380 mm)

STANDARD PLANS FOR PUBLIC WORKS CONSTRUCTION

PROMULGATED BY THE PUBLIC WORKS STANDARDS INC. GREENBOOK COMMITTEE 1992 REV. 1996, 2009

MANHOLE PIPE–TO–PIPE (ONE OR BOTH MAIN LINE IDS 33" (825 mm) OR SMALLER)

USE WITH STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION

STANDARD PLAN 321–2 SHEET 1 OF 3

NOTES

1. WHEN DEPTH M FROM STREET GRADE TO THE TOP OF THE BOX IS LESS THAN 2'–10 1/2" (867 mm) FOR PAVED STREETS OR 3'–6" (1060 mm) FOR UNPAVED STREETS, CONSTRUCT SHAFT PER SECTION C–C AND DETAIL "N". DEPTH M MAY BE REDUCED TO AN ABSOLUTE LIMIT OF 6" (150 mm) WHEN LARGER VALUES OF M WOULD REDUCE H IN SECTION C–C TO 3'–6" (1060 mm) OR LESS.
2. H (IN SECTION A–A AND B–B) SHALL NOT BE LESS THAN 4'–0" (1.2 m), BUT MAY BE INCREASED PROVIDED THAT THE VALUE OF M SHALL NOT BE LESS THAN THE MINIMUM SPECIFIED AND THAT THE REDUCER SHALL BE USED. FOR H (IN SECTION C–C) SEE NOTE 1.
3. L SHALL BE 4'–0" (1.2 m) UNLESS OTHERWISE SHOWN. L MAY BE INCREASED OR LOCATION OF MANHOLE SHIFTED TO MEET PIPE ENDS, BUT ANY CHANGE IN LOCATION OF THE SPUR MUST BE APPROVED BY THE ENGINEER.
4. T SHALL BE 8" (200 mm) FOR VALUES OF H UP TO AND INCLUDING 8'–0" (2.4 m) AND 10" (250 mm) FOR VALUES OF H OVER 8'–0" (2.4 m).
5. STATIONS OF MANHOLES SHOWN ON PLANS APPLY AT CENTERLINE OF SHAFT. ELEVATIONS ARE SHOWN AT CENTERLINE OF SHAFT AND REFER TO THE PROLONGED INVERT GRADE LINES. SEE NOTE 3.
6. REINFORCEMENT SHALL CONFORM TO ASTM A 615, GRADE 40 (ASTM A 615M, GRADE 300), AND SHALL TERMINATE 1 1/2" (40 mm) CLEAR OF CONCRETE SURFACES UNLESS OTHERWISE SHOWN.
7. FLOOR OF MANHOLE SHALL BE STEEL TROWELED TO SPRING LINE.
8. BODY OF MANHOLE SHALL BE POURED IN ONE CONTINUOUS OPERATION EXCEPT THAT A CONSTRUCTION JOINT WITH A LONGITUDINAL KEYWAY MAY BE PLACED AT SPRING LINE.
9. THICKNESS OF THE DECK SHALL VARY WHEN NECESSARY TO PROVIDE A LEVEL SEAT BUT SHALL NOT BE LESS THAN 8" (200 mm).
10. STEPS SHALL CONFORM TO SPPWC 635 OR 636. UNLESS OTHERWISE SHOWN, STEPS SHALL BE UNIFORMLY SPACED 14" (350 mm) TO 15" (375 mm) OC. THE LOWEST STEP SHALL NOT BE MORE THAN 24" (600 mm) ABOVE THE LEDGE AT THE SIDE OF THE MANHOLE.

STANDARD PLANS FOR PUBLIC WORKS CONSTRUCTION

MANHOLE PIPE–TO–PIPE (ONE OR BOTH MAIN LINE IDS = 33" (825 mm) OR SMALLER)

STANDARD PLAN 321–2 SHEET 2 OF 3

11. THE FOLLOWING CRITERIA SHALL BE USED FOR THIS MANHOLE:
    A. MAIN LINE = 33" (825 mm) INSIDE DIAMETER OR LESS. (EXCEPTION – IF THE MAIN LINE RCP DOWNSTREAM OF THE MANHOLE IS 36" (900 mm) TO 42" (1050 mm) INSIDE DIAMETER AND THE MAIN LINE RCP UPSTREAM IS 33" (825 mm) OR LESS.) SPPWC 320 OR 322 IS NOT APPLICABLE WHERE THE MAIN LINE CONDUIT IS LESS THAN 36" (900 mm) IN DIAMETER.
    B. SEE SECTION A – A. THE MAXIMUM SIZE LATERAL THAT MAY BE CONNECTED TO THIS MANHOLE IS SUCH THAT THE DISTANCE FROM THE OUTSIDE (TOP) OF THE LATERAL TO THE BOTTOM OF THE 8" (200 mm) THICK TOP OF THE MANHOLE CHAMBER, MEASURED VERTICALLY FROM THE END OF THE RCP, SHALL BE A MINIMUM OF 6" (150 mm).
    C. IF THE SIZE OF THE LATERAL IS SUCH THAT THE ABOVE–SPECIFIED MINIMUM DISTANCES CANNOT BE MAINTAINED, THEN ONE OF THE FOLLOWING ALTERNATE SOLUTIONS MUST BE USED.
        1. PROVIDE A SPECIAL STRUCTURE.
        2. PROVIDE TWO STANDARD STRUCTURES, CONSISTING OF THIS MANHOLE PLACED UPSTREAM OR DOWNSTREAM FROM THE APPLICABLE JUNCTION STRUCTURE OR TRANSITION STRUCTURE.
12. MANHOLE FRAME AND COVER SHALL CONFORM TO SPPWC 630 UNLESS OTHERWISE SHOWN.
13. MANHOLE SHAFT SHALL CONFORM TO SPPWC 324 UNLESS OTHERWISE SHOWN.
14. WHERE A MANHOLE SHAFT – 36" (900 mm) WITHOUT REDUCER IS SPECIFIED REFER TO SPPWC 336.
15. WHERE A PRESSURE MANHOLE SHAFT – WITH ECCENTRIC REDUCER IS SPECIFIED REFER TO SPPWC 328.
16. WHERE A PRESSURE MANHOLE SHAFT – 36" (900 mm) WITHOUT REDUCER IS SPECIFIED REFER TO SPPWC 329.
17. THE FOLLOWING SPPWC ARE INCORPORATED HEREIN:
    324 MANHOLE SHAFT – WITH ECCENTRIC REDUCER
    326 MANHOLE SHAFT – 36" (900 mm) WITHOUT REDUCER
    328 PRESSURE MANHOLE SHAFT – WITH ECCENTRIC
    329 PRESSURE MANHOLE SHAFT – 36" (900 mm) WITHOUT REDUCER
    630 24" (610 mm) MANHOLE FRAME AND COVER
    633 36" (900 mm) MANHOLE FRAME AND COVER
    635 STEEL STEP
    636 POLYPROPYLENE PLASTIC STEP

STANDARD PLANS FOR PUBLIC WORKS CONSTRUCTION

MANHOLE PIPE–TO–PIPE (ONE OR BOTH MAIN LINE IDS = 33" (825 mm) OR SMALLER)

STANDARD PLAN 321–2 SHEET 3 OF 3

STORM DRAIN MANHOLE DETAILS (G)

SCALE: N.T.S.

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SOUTHERN KERN UNIFED SCHOOL DISTRICT

TROPICO MIDDLE SCHOOL LANDSCAPE & DRAINAGE PROJECT

3180 MOJAVE TROPICO ROAD ROSAMOND, CA 93560

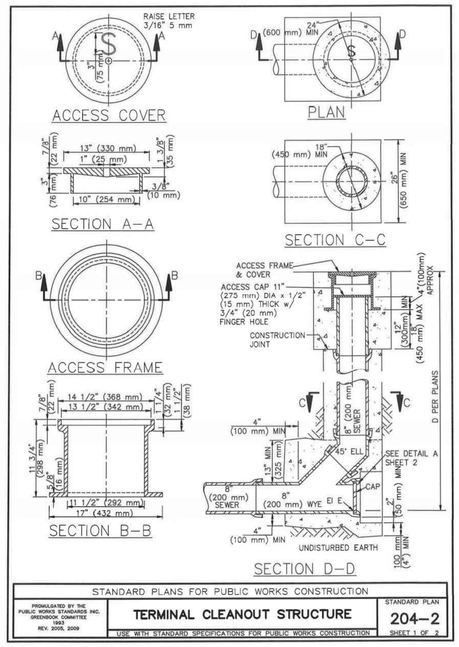
DETAILS

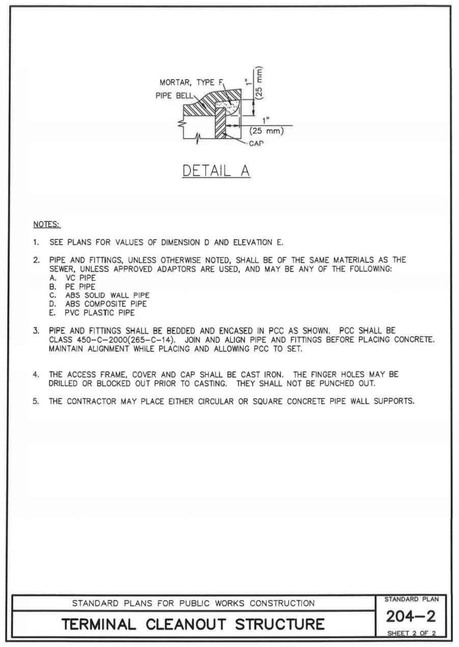
Job No. 2940.400

Date 10-16-2024

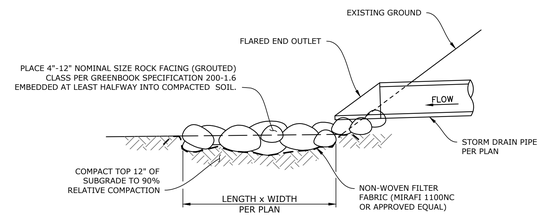
C4.01

BID CLARIFICATION NO. 1 - 01/06/2025

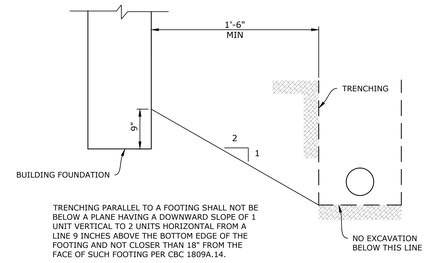




CLEANOUT (H)
SCALE: N.T.S.

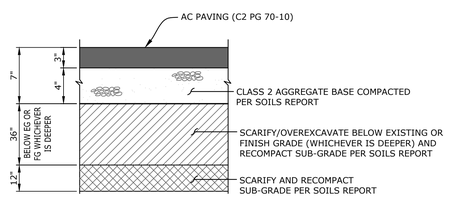


GROUTED ROCK RIP-RAP PAD DETAIL (J)
SCALE: N.T.S.

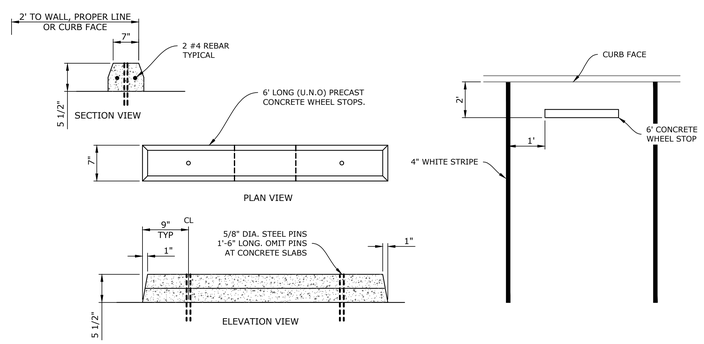


TYPICAL TRENCH AND FOOTING DETAIL (K)
SCALE: N.T.S.

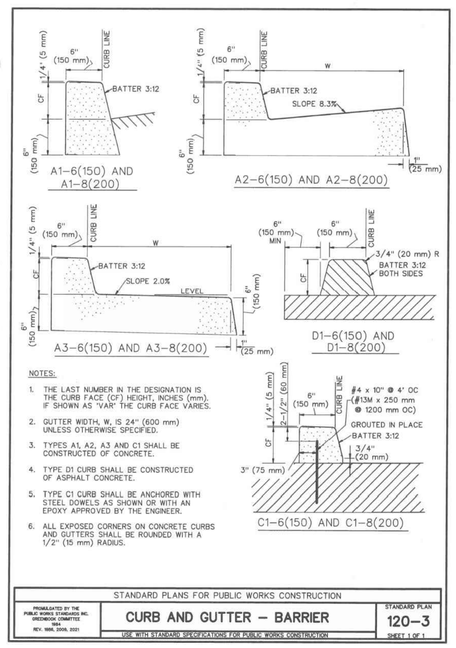
BID ALTERNATE #1



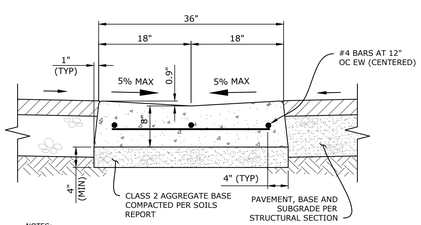
PARKING STALL AC PAVEMENT SECTION TI = 5 (L)
SCALE: N.T.S.



WHEEL STOP DETAIL (M)
SCALE: N.T.S.



CURB AND GUTTER DETAIL (O)
SCALE: N.T.S.



NOTES:
1. CONCRETE SHALL BE CLASS 560-C-4000.
2. EXPOSED EDGES SHALL HAVE A 1/2" TOOLED RADIUS.
3. SUBGRADE SOILS SHALL BE COMPACTED TO 95% OF MAXIMUM DENSITY.
4. INSTALL WEAKENED PLANE JOINTS AT 12' MAX SPACING.
5. INSTALL EXPANSION JOINTS AT 24' MAX. SPACING.

CONCRETE RIBBON GUTTER (N)
SCALE: N.T.S.

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SOUTHERN KERN UNIFED SCHOOL DISTRICT

TROPICO MIDDLE SCHOOL LANDSCAPE & DRAINAGE PROJECT

3180 MOJAVE TROPICO ROAD ROSAMOND, CA 93560

DETAILS

Job No. 2940.400

Date 10-16-2024

C4.02

BID CLARIFICATION NO. 1 - 01/06/2025

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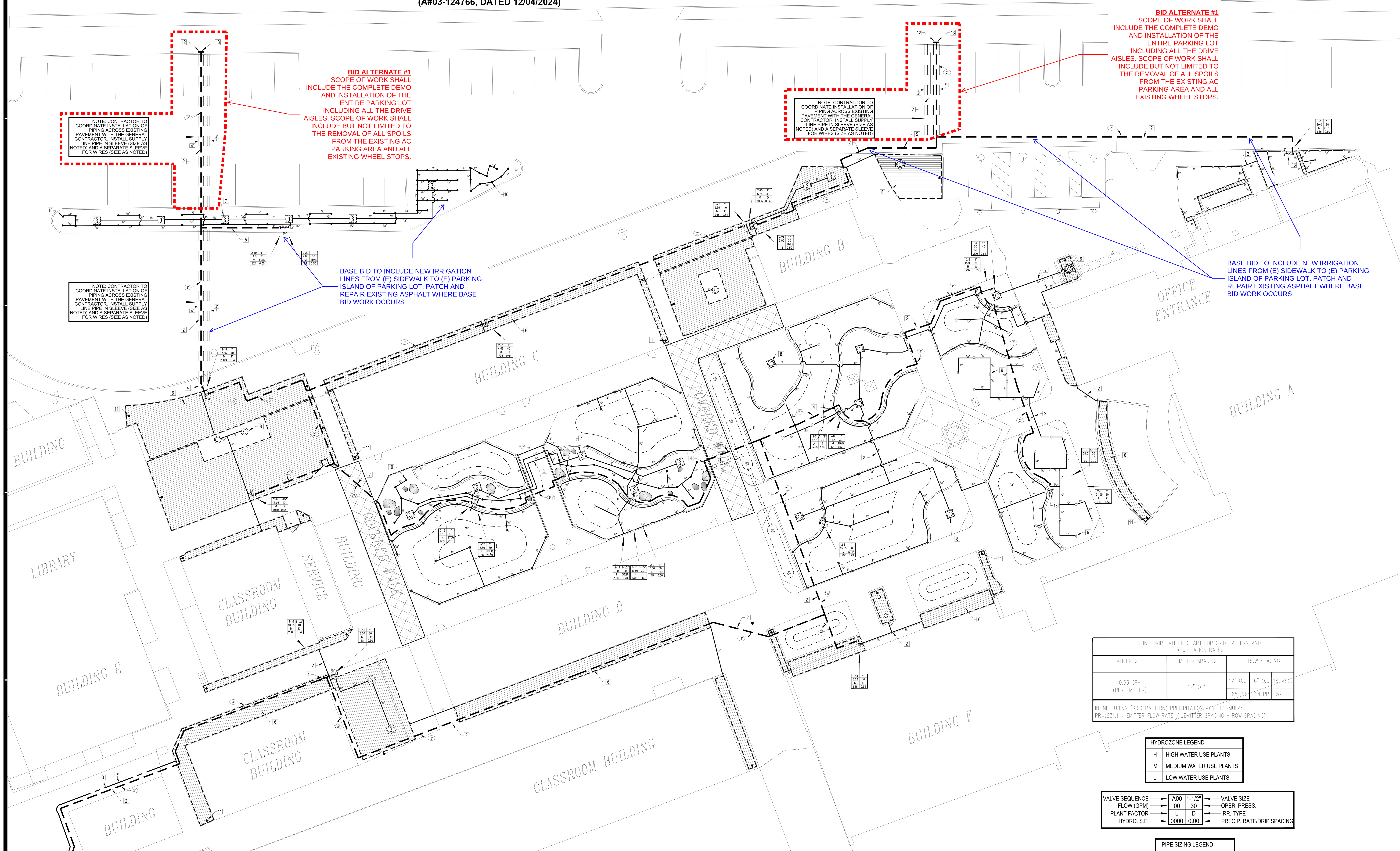

INLINE DRIP EMITTER CHART FOR GRID PATTERN AND PRECIPITATION RATES				
EMITTER GPH	EMITTER SPACING	ROW SPACING		
0.53 GPH (PER EMITTER)	12" O.C.	12" O.C.	16" O.C.	18" O.C.
		.85 PR	.64 PR	.57 PR
INLINE TUBING (GRID PATTERN) PRECIPITATION RATE FORMULA: PR=(231.1 x EMITTER FLOW RATE / (EMITTER SPACING x ROW SPACING)				

HYDROZONE LEGEND	
H	HIGH WATER USE PLANTS
M	MEDIUM WATER USE PLANTS
L	LOW WATER USE PLANTS

VALVE SEQUENCE →	A00	1-1/2"	← VALVE SIZE
FLOW (GPM) →	00	30	← OPER. PRESS.
PLANT FACTOR →	L	D	← IRR. TYPE
HYDRO. S.F. →	0000	0.00	← PRECIP. RATE/DRIP SPACING

PIPE SIZING LEGEND		
		SCH 40
PIPE SIZE		GPM
A	3/4"	1 - 6
B	1"	7 - 12
C	1-1/4"	13 - 20
D	1 1/2"	21 - 30
E	2"	31 - 45
F	2 1/2"	46 - 55
G	3"	56 - 70
H	4"	71 - 125

SLEEVE SIZING LEGEND		
		SCH 40
SLEEVE SIZE		PIPE SIZE
2"	2"	1/2" TO 1"
3"	3"	1 1/4" TO 1 1/2"
4"	4"	2"
6"	6"	2 1/2" TO 3"

EXISTING LANDSCAPE NOTE

1. PROTECT ALL EXISTING LANDSCAPING. ANY EXISTING LANDSCAPING REMOVED OR DAMAGED SHALL BE PROPERLY REPLACED, INCLUDING SOD, AS DIRECTED BY THE LANDSCAPE ARCHITECT.
2. VERIFY THAT FENCING HAS BEEN PROVIDED AROUND EXISTING TREES, LOCATED AT THE DRIPLINE (LINE OF FURTHEST BRANCH OF TREE PLUS 3 FT.) NOTIFY LANDSCAPE ARCHITECT TO REVIEW AND APPROVE FINAL FENCING LOCATION AND PROPOSED IRRIGATION SYSTEM LAYOUT AND TRENCHING IN THE VICINITY OF EXISTING TREES TO BE RETAINED.
3. DO NOT EXCAVATE OR INSTALL IRRIGATION MATERIALS OR EQUIPMENT WITHIN THE DRIPLNE OF EXISTING TREES. DO NOT PERMIT SPRINKLER HEADS TO SPRAY ONTO OR WITHIN 5 FT. OF THE TRUNKS OF THE EXISTING TREES. USE ALL POSSIBLE CARE TO AVOID INJURY TO EXISTING TREES AND TREE ROOTS. EXCAVATE BY HAND IN AREAS WHERE (1) INCH AND LARGER ROOTS OCCUR. TUNNEL UNDER ALL ROOTS (1) INCH AND LARGER IN DIAMETER AND HEAVILY WRAP WITH BURLAP TO PREVENT SCARRING OR EXCESSIVE DRYING OF EXISTING ROOTS. LANDSCAPE ARCHITECT TO APPROVE ALL TRENCHING AND EXCAVATIONS PRIOR TO ACTUAL COMMENCMENT OF IRRIGATION INSTALLATION.
4. DO NOT USE DITCHING MACHINE WITHIN THE DRIPLINE OF EXISTING TREES. IN NO CASE SHALL MORE THAN TWO SIDES OF AN EXISTING TREE BE TRENCHED FOR IRRIGATION LINES. CONFIRM TRENCHING LOCATIONS AT EXISTING TREES WITH LANDSCAPE ARCHITECT, TO OBTAIN APPROVAL PRIOR TO TRENCHING. WHERE ROOTS ARE ENCOUNTERED OUTSIDE THE DRIPLINE, CONTRACTOR TO HAND TRIM THE WALL OF THE TRENCH ADJACENT TO THE TREE, MAKING CLEAN CUTS THROUGH. PAINT ROOTS (1) INCH AND LARGER IN DIAMETER WITH TWO COATS OF TREE SEAL OR EQUIVALENT OR PER LANDSCAPE ARCHITECT'S DIRECTIONS. CLOSE TRENCHES ADJACENT TO TREE WITHIN 24 HOURS. WHERE THIS IS NOT POSSIBLE, SHADE THE SIDE OF THE TRENCH ADJACENT TO THE EXISTING TREE WITH BURLAP OR CANVAS.

EXISTING IRRIGATION VERIFICATION NOTES

TYPICAL - ALL EXISTING IRRIGATION EQUIPMENT, VALVES, HEADS, ETC. WITHIN NEW PHASE OF WORK SHALL BE REMOVED AND RETURNED TO OWNER. ALL NON-PRESSURE AND PRESSURE LINES TO BE ABANDONED IN PLACE. ANY EXISTING IRRIGATION NOT A PART OF THIS PHASE OF WORK SHALL REMAIN AND KEPT OPERATIONAL DURING CONSTRUCTION. CONTRACTOR TO INCORPORATE ALL EXISTING SYSTEMS TO REMAIN INTO NEW IRRIGATION CONFIGURATION. REFER TO "EXISTING IRRIGATION NOTE" ON SHEET FOR ADDITIONAL INFORMATION. NOTIFY LANDSCAPE ARCHITECT/IRRIGATION DESIGNER OF ANY DISCREPANCIES FOUND ON SITE FOR FURTHER DIRECTION ON HOW TO PROCEED.

REFER TO SHEET L2.02 FOR LEGENDS, CONSTRUCTION NOTES & CALCS.

REFER TO SHEET L2.03 FOR GENERAL NOTES

REFER TO SHEET L2.04 & L2.05 FOR INSTALLATION DETAILS

Roque Irrigation Consultants, LLC
5873 S. Orlando Avenue - L.A. - CA. 90056-1632
Ph: 310 . 923 . 1885
E-mail: iroque@roque-irrigation.com

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Mark Beall associates
landscape architecture

Drawn by JL
Checked by MB

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SOUTHERN KERN UNIFIED SCHOOL DISTRICT

TROPICO MIDDLE SCHOOL
LANDSCAPE, DRAINAGE, AND PARKING LOT UPGRADE PROJECT

3180 MOJAVE TROPICO ROAD
ROSAMOND, CA 93560

IRRIGATION PLAN

Job No. 2940.400
Date 04-23-24

L2.01

BID CLARIFICATION NO. 1 - 01/06/2025

CONSTRUCTION NOTES

1 TYPICAL - DENOTES NEW 3" PRESSURE SUPPLY LINE. CONTRACTOR TO EXTEND NEW LINE AND CONNECT TO SYSTEM SUPPLY (MASTER VALVE/FLOW SENSOR, BOOSTER PUMP, BACKFLOW ASSEMBLIES PROVIDED UNDER ATHLETIC FIELD EXPANSION PROJECT. CONTRACTOR TO REFER TO ATHLETIC FIELD EXPANSION PLANS FOR ADDITIONAL INFORMATION.), AS REQUIRED. EXACT ROUTING, LOCATION OF CONNECTION POINT AND WATER PRESSURE TO BE DETERMINED AND VERIFIED ON SITE. COORDINATE INSTALLATION WITH THE GENERAL CONTRACTOR PRIOR TO START OF CONSTRUCTION. NOTIFY ARCHITECT OF ANY DISCREPANCIES FOUND ON SITE PRIOR TO PROCEEDING WITH WORK.

2 TYPICAL - ALL LINES SHOWN CROSSING EXISTING PAVING, HARDSCAPE, ETC., SHALL BE COORDINATED WITH THE GENERAL CONTRACTOR PRIOR TO START OF CONSTRUCTION. CONTRACTOR TO BORE, CUT & PATCH, ETC. UNDER PAVING, HARDSCAPE, ETC. AS NEEDED AND REPAIRED TO MATCH EXISTING CONDITION. CONTRACTOR TO COORDINATE WITH OTHER TRADES ON SITE IN ORDER TO MINIMIZE ADDITIONAL TRENCHING. WHENEVER POSSIBLE, CONTRACTOR TO UTILIZE CROSSOVER TRENCHING PERFORMED BY OTHER TRADES. CONTRACTOR TO OBTAIN APPROVAL FROM GENERAL CONTRACTOR PRIOR TO PROCEED. EXACT LOCATION AND ROUTING OF LINES TO BE DETERMINED ON SITE. REFER TO SLEEVING NOTES ON LEGEND.

3 ~~TYPICAL - DENOTES EXISTING (24 STATION) AUTOMATIC CONTROLLER ASSEMBLY. EXACT LOCATION OF EXISTING CONTROLLER TO BE DETERMINED AND VERIFIED ON SITE. CONTRACTOR TO EXTEND NEW WIRES (INSTALLED IN SLEEVE/FLEX CONDUIT, SIZE AS REQUIRED) , AS REQUIRED TO NEW VALVE LOCATIONS. NOTIFY ARCHITECT OF ANY DISCREPANCIES FOUND ON SITE.~~ SEE UPDATED NOTE #3 BELOW

4 TYPICAL - (BRASS) GATE/SECTIONAL VALVE (LINE SIZE). EXACT LOCATION TO BE DETERMINED ON SITE.

5 TYPICAL - ALL LINES AND EQUIPMENT SHOWN OUTSIDE OF PLANTING AREAS OR PROPERTY LINE ARE FOR GRAPHIC CLARITY PURPOSES ONLY. ALL LINES AND EQUIPMENT SHALL BE INSTALLED WITHIN PLANTING AREAS WHENEVER POSSIBLE AND WITHIN PROPERTY LINES AT ALL TIMES. EXACT ROUTING OF LINES AND LOCATION OF EQUIPMENT TO BE DETERMINED ON SITE. CONTRACTOR TO ENSURE AS-BUILT DIMENSIONS AND NOTATIONS BE KEPT CURRENT FOR ENTIRE DURATION OF CONSTRUCTION. CURRENT AS-BUILT PLANS SHALL BE AVAILABLE FOR ALL SITE REVIEWS AND SHALL BE KEPT ON SITE AT ALL TIMES.

6 TYPICAL - DENOTES PRESSURE COMPENSATING IN-LINE EMITTER TUBING SYSTEMS. CONTRACTOR TO INSTALL DRIP TUBING IN GRID TYPE PATTERN. EXACT LAYOUT OF TUBING TO BE DETERMINED AND APPROVED BY LANDSCAPE ARCHITECT/IRRIGATION DESIGNER PRIOR TO FINALIZING INSTALLATION AND BACKFILL. MINOR ADJUSTMENTS AND OR ADDITIONAL TUBING MAY BE REQUIRED TO ACHIEVE A MORE UNIFORM & ADEQUATE COVERAGE.TUBING SPACING SHALL BE BETWEEN 12" O.C. (MIN.) TO 18" O.C. (MAX.) REFER TO PLANS FOR SPACING REQUIRED. TUBING SHALL BE BURIED A MIN. OF 3" AND 6" MAX. BELOW FINISH GRADE (NOT INCLUDING MULCH).

7 TYPICAL - DENOTES ROOT WATERING SYSTEMS FOR TREES. EXACT LOCATION TO BE DETERMINED ON SITE. REFER TO DETAIL NO. 7 FOR NUMBER OF BUBBLERS PER SIZE OF TREE, UNLESS OTHERWISE NOTED.

8 TYPICAL - DENOTES DRIP "SPIRAL" TYPE RINGS SYSTEMS FOR TREES. EXACT LAYOUT TO BE DETERMINED AND APPROVED BY LANDSCAPE ARCHITECT/IRRIGATION DESIGNER ON SITE PRIOR TO FINALIZING INSTALLATION. REFER TO DETAIL NO. 12 FOR GENERAL INSTALLATION NOTES.

9 TYPICAL - DENOTES STREAM BUBBLERS (ON POP-UP HEADS) FOR EXISTING TREES ONLY. EXACT LAYOUT TO BE DETERMINED AND APPROVED BY LANDSCAPE ARCHITECT/IRRIGATION DESIGNER ON SITE PRIOR TO FINALIZING INSTALLATION. REFER TO DETAIL NO. 13 FOR GENERAL INSTALLATION. HEADS TO BE INSTALLED APPROXIMATELY 5'-6' FROM EXISTING TREE TRUNKS. SPRAY TOWARDS TREE TRUNK WITHOUT SPRAYING ONTO (ADJUST SPRAY AS NEEDED) EXISTING TREE TRUNK.

10 TYPICAL - DENOTES SINGLE BUBBLER HEAD (ON POP-UP HEADS) FOR SHRUB PLANTING. EXACT LOCATION TO BE DETERMINED ON SITE. INSTALL ASSEMBLY PLUMB TO FINISH GRADE. BUBBLER TO BE INSTALLED ADJACENT TO ROOTBALL, FLUSH TO FINISH GRADE. IN SLOPING CONDITIONS, INSTALL BUBBLER ON HIGH SIDE OF SLOPE.

11 TYPICAL - DENOTES OPERATION INDICATOR/FLUSH OUT ASSEMBLY. CONTRACTOR TO INSTALL AT END RUN OF DRIP SYSTEMS. EXACT LOCATION TO BE DETERMINED ON SITE. ASSEMBLY TO BE INSTALLED A MIN. OF 6" FROM EDGE OF HARDSCAPE OR PLANTING AREAS.

12 TYPICAL - CONTRACTOR TO STUB-OUT LINE (IN ROUND VALVE BOX) FOR FUTURE USE/CONNECTION. EXACT LOCATION TO BE DETERMINED.

13 TYPICAL - CONTRACTOR TO STUB-OUT ~~(2)~~ 4 CONTROL & (1) COMMON WIRE (WIRE COLORS TO DIFFER FROM WIRES BEING USED) INSTALLED IN ROUND VALVE BOX (REFER TO NOTE NO. 12). RUN WIRE BACK TO EXISTING CONTROLLER AND BUNDLE BOTH ENDS WITH A 2 FT. EXPANSION COIL. LABEL WIRES "AUX" FOR FUTURE USE.

3 TYPICAL - DENOTES (NEW) 36 STATION AUTOMATIC CONTROLLER ASSEMBLY. INSTALLED INSIDE EXISTING CONTROLLE ENCLOSURE. EXACT LOCATION TO BE DETERMINED AND VERIFIED ON SITE. CONTRACTOR TO EXTEND NEW WIRES (INSTALLED IN SLEEVE/FLEX CONDUIT, SIZE AS REQUIRED). TO NEW VALVE LOCATIONS. NOTIFY ARCHITECT OF ANY DISCREPANCIES FOUND ON SITE. REMOVE EXISTING (24) STATION CONTROLLER (#2) AND RETURNED TO DISTRICT. CONTRACTOR TO CONNECT ALL REQUIRED WIRES TO PUMP CONTROL AS REQUIRED.

NOTE: THE INTENT OF THIS DRAWING IS TO INDICATE ONLY THE REVISIONS SHOWN WITHIN THE 'RED DASHED AREAS' AS BID ALTERNATE #1. ALL ADDITIONAL 'BASE BID' NOTES SHOWN WITH A 'BLUE TEXT' SHALL HEREBY BE MADE PART OF THE CONTRACT. ALL OTHER WORK SHALL REMAIN UNCHANGED PER THE DSA APPROVED DOCUMENTS, (A#03-124766, DATED 12/04/2024)

IRRIGATION EQUIPMENT LEGEND

SYMBOL	MANUF.	MODEL NO.	DESCRIPTION	DETAILS	SHEET
	NIBCO	T-113 SERIES w/ KEY	BRONZE GATE VALVE - NON-RISING STEM - MATCH LINE SIZE - INSTALLED WITH KEY/HANDLE	5	L2.04
	RAIN BIRD	33-DLRC-33DK	TWO PIECE BODY - DOUBLE KEY LUG - LOCKING RUBBER COVER W/ VALVE KEY	3	L2.04
	RAIN BIRD NIBCO	PEB - REMOTE CONTROL VALVE w/ PRS-D T-585-70	REMOTE CONTROL VALVE ASSEMBLY & PRESSURE REGULATOR W/ BALL VALVE - INSTALLED ON SUPPLY SIDE OF VALVE(MATCH LINE SIZE)- SIZE PER PLAN - CONTRACTOR TO SET PRESSURE REGULATOR FOR OPTIMAL PRESSURE OUTPUT. ADJUST IN FIELD AS REQUIRED.	1	L2.04
	RAIN BIRD	XCZ-100-PRB-COM SERIES	MEDIUM FLOW (DRIP) REMOTE CONTROL VALVE ASSEMBLY W/ QUICK CHECK BASKET FILTER - SIZE PER PLAN (MEDIUM FLOW VALVE WITH PRESSURE REGULATOR (40 P.S.I.) AND (200 MESH) FILTER ASSEMBLY)	2	L2.04
	RAIN BIRD	XCZ-150-LCS SERIES	HIGH FLOW (DRIP) REMOTE CONTROL VALVE ASSEMBLY W/ DISC FILTER FILTER - SIZE PER PLAN (HIGH FLOW VALVE WITH PRESSURE REGULATOR (40 P.S.I.) AND (120 MESH) FILTER ASSEMBLY) INSTALLED IN JUMBO RECTANGULAR VALVE BOX	2	L2.04
	RAIN BIRD/GPH	RD-45-12 SERIES POP-UP (FLUSH-OUT)	DRIP INDICATOR/FLUSH OUT ASSEMBLY. GPH GDFN FLUSH OUT NOZZLE (ORANGE). FLUSH OUT NOZZLE TO BE IN CLOSED POSITION DURING OPERATION OF DRIP. OPEN FOR SYSTEM FLUSH OUT. INSTALLED AT END RUN OF DRIP SYSTEMS.	9	L2.04
NO SYMBOL	RAIN BIRD	ARV050 SERIES	AIR/VACUUM RELIEF VALVE INSTALLED INSIDE RAIN BIRD SEB-7XB EMITTER BOX AT HIGHEST POINT OF DRIP SYSTEM	14	L2.05
2	RAIN BIRD	~~EXISTING ESP-LXME-24 STATION SERIES~~ ESP12-LXMEF (12 STATION BASE) SERIES w/ (2X) ESPLXMSM12 MODULES (TOTAL OF 36 STATIONS)	~~CONTRACTOR TO VERIFY EXISTING CONTROLLER TYPE, MODEL NO., LOCATION AND OPERATIONAL STATUS ON SITE PRIOR TO START OF CONSTRUCTION. NOTIFY ARCHITECT OF ANY DISCREPANCIES FOUND ON SITE.~~ NEW (36) STATION AUTOMATIC CONTROLLER ASSEMBLY. CONTRACTOR TO REMOVE EXISTING (#2) 24 STATION CONTROLLER (AND RETURNED TO DISTRICT) AND REPLACE WITH NEW CONTROLLER INSIDE EXISTING CONTROLLER ENCLOSURE LOCATED AT UTILITY YARD. EXACT LOCATIONTO BE DETERMINED ON SITE.	-	-
	MAIN LINE (PRESSURE SUPPLY) PIPE SCHEDULE 40 PVC FOR PIPE 1-1/2" AND SMALLER - BURY 18" BELOW FINISH GRADE - SIZE PER PLAN - REFER TO SPECIFICATIONS SECTION 328400 FOR ADDITIONAL INFORMATION SCHEDULE 315 PVC FOR PIPE 2" TO 4" - BURY 24" BELOW FINISH GRADE - SIZE PER PLAN - REFER TO SPECIFICATIONS SECTION 328400 FOR ADDITIONAL INFORMATION			SPECS.	L2.01
	DENOTES WIRE PVC SLEEVE/FLEXIBLE CONDUIT FOR WIRES. EXACT ROUTING AND SIZE TO BE DETERMINED. SLEEVE/CONDUIT SIZE TO BE SIZED ACCORDINGLY WITHOUT ANY RESISTANCE THROUGH SLEEVE WHEN PULLING WIRES THROUGH SLEEVE. CONDUIT TO BE BURIED 24" MIN. UNDER PAVED AREAS.			SPECS.	L2.01
	NON-PRESSURE (LATERAL LINE) PIPE SCHEDULE 40 PVC - BURY 12" BELOW FINISH GRADE - SIZE PER PLAN - REFER TO SPECIFICATIONS SECTION 328400 FOR ADDITIONAL INFORMATION			SPECS.	L2.01
NO SYMBOL	SLEEVE FOR PRESSURE OR NON-PRESSURE PIPE SCHEDULE 40 PVC - 2X DIAMETER OF PIPE BEING SLEEVED - SIZE PER PLAN - BURY 24" BELOW FINISH GRADE (ALL PRESSURE SUPPLY LINE SLEEVE SHALL BE ACCOMPANIED BY A 2" MINIMUM SLEEVE FOR WIRES (SCHEDULE 40 PVC) UNLESS OTHERWISE NOTED ON PLAN			SPECS.	L2.01
NO SYMBOL	SLEEVE FOR LOW VOLTAGE VALVE WIRES SCHEDULE 40 PVC - 2X DIAMETER OF PIPE BEING SLEEVED - SIZE PER PLAN - BURY 24" BELOW FINISH GRADE (ALL PRESSURE SUPPLY LINE SLEEVE SHALL BE ACCOMPANIED BY A 2" MINIMUM SLEEVE FOR WIRES (SCHEDULE 40 PVC) UNLESS OTHERWISE NOTED ON PLANS			SPECS.	L2.01
NO SYMBOL	TYPICAL TRENCHING DETAIL FOR BURIED PRESSURE LINES, LATERAL LINES, WIRES & SLEEVES			15	L2.05
NO SYMBOL	TYPICAL MULTI-VALVE JUMBO BOX ASSEMBLY-CONTRACTOR TO GROUP VALVES INTO (2 MAX.)PER JUMBO BOX TO MINIMIZE VALVE BOX FOOTPRINT WHENEVER POSSIBLE.			4	L2.04
NO SYMBOL	TYPICAL VALVE BOX LAYOUT			17	L2.05
NO SYMBOL	TYPICAL THRUST BLOCK FOR PIPING 3" AND LARGER			16	L2.05
NO SYMBOL	SLEEVE CROSSING NOTE: ALL PIPING AND WIRES CROSSING HARDSCAPE, PAVING, ETC. AREA SHALL BE INSTALLED IN SLEEVE (REFER TO SLEEVE NOTE ABOVE). PIPE AND WIRES TO BE INSTALLED IN SEPARATE SLEEVES. SLEEVES INSTALLED A MINIMUM OF (6")INTO PLANTING AREA. CONTRACTOR TO BORE UNDER/CUT & PATCH UNDER EXISTING PAVING/HARDSCAPE AS REQUIRED AND REPAIR TO ORIGINAL CONDITION. CONTRACTOR TO COORDINATE WITH NECESSARY TRADES ON SITE, PRIOR TO START OF CONSTRUCTION IN ORDER TO UTILIZE SCHEDULED UTILITY TRENCHES WHENEVER POSSIBLE. AT A MINIMUM ALL CROSSOVERS OVER PAVING SHALL RECEIVE (2) 6" SEPARATE SLEEVES.				

SPRINKLER HEAD LEGEND

SYMBOL	MANUFACTURER	MODEL: BODY / NOZZLE	RADIUS	PRESS.	NOZZLE FLOW RATE GPM	PRECIP. IN/HR	DETAILS	SHEET
BUBBLER (2) (3) (4)	RAIN BIRD	RWS-B-C-1402 (REFER TO DETAIL NO. 7)		30	0.50	0.50	7	L2.05
	RAIN BIRD	1804-SAM-PRS-1401 w/ PA-80 ADAPTOR)		30	0.25	0.50	6	L2.04
	NETAFIM	TLHCVXR7-CS-18 (SEE DRIP NOTES BELOW)		40	0.77 G.P.H.	0.75	12	L2.05
TURF POP UP (F 2T H 1T Q)	RAIN BIRD	1806-SAM-PRS-5 MPR	4'-5'	30	Q-0.10, H-0.20	1.78	8	L2.04
TURF POP UP (F 2T H 1T Q)	RAIN BIRD	1806-SAM-PRS-8 HE-VAN	6'-8'	30	Q-0.29, H-0.59	2.03	8	L2.04
TURF POP UP (F 2T H 1T Q)	RAIN BIRD	1806-SAM-PRS-10 HE-VAN	9'-10'	30	Q-0.45, H-0.89, 2T-1.88, F-1.78	1.98	8	L2.04
TURF POP UP (F 2T H 1T Q)	RAIN BIRD	1806-SAM-PRS-12 HE-VAN	11'-12'	30	Q-0.59, H-1.18, F-2.37	1.83	8	L2.04
TURF POP UP (F 2T H 1T Q)	RAIN BIRD	1806-SAM-PRS-15 HE-VAN	13'-15'	30	Q-0.93, H-1.85, F-3.70	1.83	8	L2.04
STREAM ROTOR (F 2T H 1T Q)	RAIN BIRD	RD-06-S-P30-F-R-VAN24	16'-19'	30	Q-0.60, H-1.20, F-2.35	0.73	8	L2.04
STREAM BUBBLER (F 2T H 1T Q)	RAIN BIRD	1806-SAM-PRS-5F-B MPR NOZZLE	3'-5'	30	F-1.50	0.70	13	L2.05
STREAM BUBBLER (F 2T H 1T Q)	RAIN BIRD	1806-SAM-PRS-5-B MPR NOZZLE	3'-5'	30	Q-0.50, H-1.00, F-1.50	0.70	13	L2.05
DRIP	NETAFIM	TLHCVXR5-CS-12	0.53 GPH EMITTER FLOW RATE WITH EMITTER SPACING AT 12" O.C. ROW SPACING TO BE 12"-16" ON CENTER - INSTALL PER MANUFACTURER RECOMMENDATION BURY 4" BELOW FINISH GRADE OR MULCH - SECURE TUBING W/ EPOXY COATED WIRE STAKES (9" LONG - 5' ON CENTER)				11, 12	L2.05

DRIP NOTES:

A. SUB-SURFACE IN-LINE DRIP TUBING SHALL BE INSTALLED AT 16" MAXIMUM ROW SPACING, 4"-6" BELOW GRADE FOR SHRUB AREAS. INSTALL TUBING WITH TRIANGULAR SPACED EMITTER LAYOUT, ANCHOR TUBING WITH 9" PVC COATED GALVANIZED WIRE STAKES, GPH IRRIGATION PRODUCTS MODEL # GPH GDTS-140900, INSTALLED AT 5 FT. ON CENTER.

B. INSTALL PERIMETER TUBING MAXIMUM 6" FROM PERIMETER EDGE FOR GROUNDCOVER AREAS OR AT FIRST LINE OF SHRUBS. CONTRACTOR SHALL DETERMINE MINIMUM ROW SPACING IN THE FIELD AFTER REVIEW OF PLANT SPACING FOR EACH PLANTER. EACH AND EVERY SHRUB SHALL RECEIVE WATER FROM A MINIMUM OF TWO IN-LINE DRIP EMITTERS. AREAS OF TIGHTLY SPACED GROUNDCOVER OR SANDY SOILS WILL REQUIRE CLOSER ROW SPACING. FOR ANY SINGLE OR DOUBLE ROW TYPE PLANTINGS,INSTALL DRIP TUBING ON BOTH SIDES OF THE SHRUB ROW TO IRRIGATE SHRUBS ON EITHER SIDE. DUE TO SOIL STRATA DIFFERENCES AND POSSIBLE COMPACTION, CONTRACTOR SHALL FIELD VERIFY PRIOR TO STARTING WORK AND BEFORE BACKFILLING, THAT THE FINAL LAYOUT AND ROW SPACING WILL PROVIDE ADEQUATE WATER TO ALL PLANTS.

C. FOR SLOPE AREAS CONTRACTOR SHALL ALWAYS FOLLOW AND ROUTE IN-LINE TUBING PARALLEL TO GRADE. DIRECTIONAL LAYOUT AS SHOWN IN THE PLANS MAY NOT BE EXACTLY ACROSS SLOPE. DRIP HATCH PATTERN ANGLE SHOWN ON PLAN ARE DIAGRAMMATICAL ONLY. ALWAYS INSTALL DRIP LINES ACROSS SLOPE. INSTALL IN-LINE DRIP CHECK VALVE FOR DRIPLINE TUBING WITH 8' OR GREATER ELEVATION CHANGE MINIMUM ONE CHECK VALVE FOR EACH DRIP LINE IN SYSTEM TO PREVENT ANY LOW EMITTER DRAINAGE.

D. FOR ALL IN-LINE DRIP TUBING AREAS ON SLOPE THE CONTRACTOR SHALL BE HELD ACCOUNTABLE FOR CREATING A TRIANGULAR WETTING PATTERN ACROSS ANY SLOPE. OFFSET THE EMITTERS BY HALF THE EMITTER SPACING WHEN INSTALLING TUBING TO CREATE A TRIANGULAR WETTING PATTERN ACROSS THE SLOPE. DO NOT INSTALL TUBING WHERE THE EMITTERS ARE DIRECTLY IN LINE (PERPENDICULAR) WITH EACH OTHER.

E. TYPICAL, GRID LINE/HATCHING SHOWN ON PLANS OF DRIP TUBING SYSTEMS DOES NOT REPRESENT ACTUAL NUMBER OF DRIP TUBING LAYOUT/ROWS. EXACT LAYOUT/ROWS TO BE DETERMINED ON SITE. INSTALL DRIP TUBING PER MANUFACTURER RECOMMENDATION.

F. DRIP TUBING SPIRAL RING SPACING AND LAYOUT TO BE DETERMINED AND APPROVED BY LANDSCAPE ARCHITECT ON SITE. ADDITIONAL TUBING MAY BE REQUIRED FOR SUFFICIENT IRRIGATION.

POINT OF CONNECTION DESIGNATION: 2
NAME OF WATER PURVEYOR: N/A
CONTACT NAME: N/A
PHONE: N/A
SIZE OF WATER METER: N/A
SIZE OF SERVICE LINE: 3"
STATIC WATER PRESSURE: 85 P.S.I. MIN. (BOOST. PRESSURE)
DESIGN WATER PRESSURE: 67.62 P.S.I.
DESIGNED HIGHEST GPM/GPH FLOW: 52.3 G.P.M.

WORST CASE PRESSURE LOSS CHART
CONTROLLER/STATION: 2-7
POC ELEV:
GPM: 52.3
PSI AT POC: 85 P.S.I.

0" WATER METER	0.00 PSI
3" BACKFLOW PREVENTER	13.00 PSI
3" MASTER VALVE	3.00 PSI
2-1/2" FLOW SENSOR	1.00 PSI
0 LF OF 2" PVC CL-315 MAINLINE	0.00 PSI
150 LF OF 2-1/2" PVC CL-315 MAINLINE (0.88)	1.32 PSI
425 LF OF 3" PVC CL-315 MAINLINE (0.34)	1.50 PSI
0 LF OF 1" PVC SCH-40 MAINLINE	0.00 PSI
FITTINGS (20% MAINLINE LOSS)	1.00 PSI
1-1/2" REMOTE CONTROL VALVE	3.80 PSI
LATERAL LINE LOSSES (FIXED)	8.00 PSI
ELEVATION CHANGE FROM POC TO HIGHEST OUTLET (+/- FT.)	5.00 PSI
SPRINKLER DESIGN OPERATING PRESSURE	30.00 PSI
#1 TOTAL SYSTEM LOSSES:	67.62 PSI
SUMMARY:	
#2 AVAILABLE STATIC PRESSURE AT POC:	85.00 PSI
#3 REQUIRED SYSTEM MINIMUM PRESSURE: #1	67.62 PSI
#4 RESIDUAL PRESSURE: #2 - #3	17.38 PSI
IF PRESSURE AT POC IS TOO HIGH, ADD THE FOLLOWING:	0.00
#5 ADJUST PRESSURE REGULATOR AT POC TO: #1 + 25%	0.00 PSI
RESIDUAL FROM ADJUSTED PRESSURE: #5 - #3	-67.62 PSI
IF PRESSURE AT POC IS TOO LOW, ADD THE FOLLOWING:	
#5 TOTAL BOOSTED PSI REQ'D AT PUMP: #3 + 25%	0.00 PSI
RESIDUAL PRESSURE: #5 - #3	-67.62 PSI
PUMP BOOST REQUIRED: #5 - #2	-85.00 PSI

POINT OF CONNECTION DESIGNATION: 2
NAME OF WATER PURVEYOR: N/A
CONTACT NAME: N/A
PHONE: N/A
SIZE OF WATER METER: N/A
SIZE OF SERVICE LINE: 3"
STATIC WATER PRESSURE: 85 P.S.I. MIN. (BOOST. PRESSURE)
DESIGN WATER PRESSURE: 75.05 P.S.I.
DESIGNED HIGHEST GPM/GPH FLOW: 39.0 G.P.M.

WORST CASE PRESSURE LOSS CHART
CONTROLLER/STATION: 2-1
POC ELEV:
GPM: 39.0
PSI AT POC: 85 P.S.I.

0" WATER METER	0.00 PSI
3" BACKFLOW PREVENTER	13.00 PSI
3" MASTER VALVE	3.00 PSI
2-1/2" FLOW SENSOR	1.00 PSI
485 LF OF 2" PVC CL-315 MAINLINE (1.41)	6.80 PSI
315 LF OF 2-1/2" PVC CL-315 MAINLINE (0.53)	1.70 PSI
425 LF OF 3" PVC CL-315 MAINLINE (0.20)	0.85 PSI
0 LF OF 1" PVC SCH-40 MAINLINE	0.00 PSI
FITTINGS (20% MAINLINE LOSS)	1.90 PSI
1-1/2" REMOTE CONTROL VALVE	3.80 PSI
LATERAL LINE LOSSES (FIXED)	8.00 PSI
ELEVATION CHANGE FROM POC TO HIGHEST OUTLET (+/- FT.)	5.00 PSI
SPRINKLER DESIGN OPERATING PRESSURE	30.00 PSI
#1 TOTAL SYSTEM LOSSES:	75.05 PSI
SUMMARY:	
#2 AVAILABLE STATIC PRESSURE AT POC:	85.00 PSI
#3 REQUIRED SYSTEM MINIMUM PRESSURE: #1	75.05 PSI
#4 RESIDUAL PRESSURE: #2 - #3	9.95 PSI
IF PRESSURE AT POC IS TOO HIGH, ADD THE FOLLOWING:	0.00
#5 ADJUST PRESSURE REGULATOR AT POC TO: #1 + 25%	0.00 PSI
RESIDUAL FROM ADJUSTED PRESSURE: #5 - #3	-75.05 PSI
IF PRESSURE AT POC IS TOO LOW, ADD THE FOLLOWING:	
#5 TOTAL BOOSTED PSI REQ'D AT PUMP: #3 + 25%	0.00 PSI
RESIDUAL PRESSURE: #5 - #3	-75.05 PSI
PUMP BOOST REQUIRED: #5 - #2	-85.00 PSI

P.O.C. NOTES

P.O.C. NOTE NO. 2:
POINT OF CONNECTION SHALL BE DOWNSTREAM OF THE EXISTING IRRIGATION BACKFLOW/GATE VALVE. VERIFY THE ACTUAL LOCATION, SIZE AND WATER PRESSURE IN THE FIELD PRIOR TO STARTING WORK. IF ANY OF THE P.O.C. INFORMATION SHOWN ON THESE DRAWINGS IS FOUND TO BE DIFFERENT THAN ACTUAL P.O.C. INFORMATION GATHERED IN THE FIELD, AND ARE NOT REPORTED PRIOR TO START OF CONSTRUCTION, THE IRRIGATION CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR ANY REVISIONS NECESSARY AT NO ADDITIONAL COST TO THE SCHOOL DISTRICT.

SITE INFORMATION

PROJECT ADDRESS: 3180 MOJAVE TROPICO ROAD ROSAMOND, CA. 93560	WATER PURVEYOR: BY OTHERS
(EXISTING) METER SIZE	FIELD VERIFIED
(EXIST.) BOOSTED PRESSURE	85-100 P.S.I.
SYSTEM DESIGN PRESSURE	85 P.S.I.
MAXIMUM SYSTEM DEMAND	150 G.P.M.
LANDSCAPE AREA SERVED	T.B.D.

INLINE DRIP EMITTER CHART FOR GRID PATTERN AND PRECIPITATION RATES

EMITTER GPH	EMITTER SPACING	ROW SPACING		
0.53 GPH (PER EMITTER)	12" O.C.	12" O.C.	16" O.C.	18" O.C.
		.85 PR	.64 PR	.57 PR

INLINE TUBING (GRID PATTERN) PRECIPITATION RATE FORMULA:
PR=(231.1 x EMITTER FLOW RATE / (EMITTER SPACING x ROW SPACING)

HYDROZONE LEGEND	
H	HIGH WATER USE PLANTS
M	MEDIUM WATER USE PLANTS
L	LOW WATER USE PLANTS

VALVE SEQUENCE →	A00	1-1/2"	← VALVE SIZE
FLOW (GPM) →	00	30	← OPER. PRESS.
PLANT FACTOR →	L	D	← IRR. TYPE
HYDRO. S.F. →	0000	0.00	← PRECIP. RATE/DRIP SPACING

PIPE SIZING LEGEND

	PIPE SIZE	SCH 40 GPM
A	3/4"	1 - 6
B	1"	7 - 12
C	1-1/4"	13 - 20
D	1 1/2"	21 - 30
E	2"	31 - 45
F	2 1/2"	46 - 55
G	3"	56 - 70
H	4"	71 - 125

SLEEVE SIZING LEGEND

SLEEVE SIZE		SCH 40 PIPE SIZE
2"	2"	1/2" TO 1"
3"	3"	1 1/4" TO 1 1/2"
4"	4"	2"
6"	6"	2 1/2" TO 3"

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AGENCY
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DATE: 12/04/2024

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An Employee Owned Corporation

ARCHITECT
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CONSULTANT
Mark Beall associates landscape architecture

Drawn by JL
Checked by MB
Revisions
No. Date Description

All dimensions must be checked at the job by the contractor who accepts full responsibility for their accuracy under the contract. These plans & the specifications in connection therewith have been prepared for a specific site. Any and all responsibility for their use in whole or in part on any other site is hereby disclaimed by Flewelling & Moody.

SOUTHERN KERN UNIFIED SCHOOL DISTRICT
TROPICO MIDDLE SCHOOL
LANDSCAPE, DRAINAGE, AND PARKING LOT UPGRADE PROJECT
3180 MOJAVE TROPICO ROAD
ROSAMOND, CA 93560

IRRIGATION LEGENDS & NOTES PLAN

Job No. 2940.400
Date 04-23-24

L2.02

BID CLARIFICATION NO. 1 - 01/06/2025

NAME OF BIDDER _____

PROJECT TITLE SKUSD-TROPICO MIDDLE SCHOOL LANDSCAPE, DRAINAGE & PARKING LOT UPGRADE PROJECT

TO SOUTHERN KERN UNIFIED SCHOOL DISTRICT referred to as "Owner".

A. In compliance with your Notice to Contractors Calling for Bids and related documents, the undersigned bidder, having familiarized itself with the terms of the contract, the local conditions affecting the performance of the contract, the cost of the work at the place where the work is to be done, and the drawings and specifications and other contract documents, proposes and agrees to perform the contract within the time stipulated, including all of its component parts and everything required to be performed, and to provide and furnish any and all of the labor, materials, tools, expendable equipment, and all applicable taxes, utility, and transportation services necessary to perform the contract and complete in a workmanlike manner all of the work required in connection with the above-referenced project, including sheeting, shoring, and bracing, or equivalent method for protection of life and limb in trenches and open excavation in conformance with applicable safety orders, within the time limits set for completion of all work, all in strict conformity with the drawings and specifications and other contract documents, including Addenda/Clarification Nos._____ **[list all]** on file at the office of OWNER for the Base Bid sum of:

_____ DOLLARS

[written in words]

$ _____

[written in numbers]

B. If any of the following alternate bids are utilized and awarded, the undersigned agrees to make price adjustments, as indicated, to the Base Bid:

ALTERNATE 01– All parking lot scope as defined in Bid Clarification 01.

State the amount to be ☒added ☐deducted to / from the Base Bid [select one]

_____ Dollars $ _____

REFER TO ANY ATTACHMENTS TO THIS BID FORM

FOR ADDITIONAL ALTERNATES

C. The Bidder agrees that upon written notice of acceptance of this bid, he will execute the contract and provide all bonds and other required documents within 10-working days after contract award.

D. Attached is bid security not less than 10-percent of the bid, in the amount of _____ _____ in the form of ☐cash ☐bid bond ☐certified check ☐cashier's check. ***[circle one]***

E. The Bidder acknowledges that OWNER reserves the right to accept or reject any and/or all Base Bids and alternate bids. This entire bid shall remain open and active for 60-days after bid opening, and any alternate bids not initially awarded shall remain active, as an irrevocable offer by the Bidder to enter into either a change order or separate contract, for up to six months after award of the contract.

F. It is understood and agreed that if written notice of the acceptance of this bid is mailed, telegraphed, or delivered to the Bidder after the opening of the bid, and within the time this bid is required to remain open, or at any time after that before this bid is withdrawn, the Bidder will execute and deliver to OWNER the Agreement and will also furnish and deliver to OWNER the Performance Bond and a separate Payment Bond as specified, certificates of insurance, and other required documents.

G. It is understood and agreed that should the Bidder fail or refuse to return executed copies of the Construction Agreement, bonds, insurance certificates, and other required documents to OWNER within the time specified, the bid security shall be forfeited to OWNER.

H. In submitting this bid, the Bidder offers and agrees that if the bid is accepted it will assign to OWNER all rights, title, and interest in and to all causes of action it may have under Section 4 of the Clayton Act (15 U.S.C. Section 15) or under the Cartwright Act (Business & Professions Code Section 16700 and following sections) arising from purchases of goods, materials, or services by the Bidder for sale to OWNER pursuant to the bid. Such assignment shall be made and become effective at the time OWNER tenders final payment under the contract. (Public Contract Code Section 7103.5; Government Code Section 4552.)

I. The Bidder hereby certifies that it is, and at all times during the performance of work under the Contract Documents shall be, in full compliance with the provisions of the Immigration Reform and Control Act of 1986 ("IRCA") in the hiring of its employees, and the Bidder shall indemnify, hold harmless, and defend OWNER against any and all actions, proceedings, penalties, or claims arising out of the Bidder's failure to comply strictly with the IRCA.

J. The Bidder understands that a licensed contractor shall not submit a bid to a public agency unless the Bidder's contractor's license number appears clearly on the bid, the license expiration date is stated, and the bid contains a statement that the representations made therein are made under penalty of perjury. Any bid not containing this information, or a bid containing information which is subsequently proven false, may be considered non-responsive and may be rejected by the public agency.

K. Bidder's contractor's license is _____ _____ _____
[number] *[class]* *[expires]*

L. The undersigned hereby declares that all of the representations of this bid, including all documents comprising the bid package, are true and are made under penalty of the perjury laws of the State of California.

INDIVIDUAL/DBA

Print Name _____ **Signature** _____

Business Address _____

_____

Date: _____ **Telephone:** _____

PARTNERSHIP

Partnership Name _____

Signed by _____ **Partner**

Print Name _____

Business Address _____

_____

Date _____ **Telephone** _____

Names of Other Partners _____

CORPORATION

Corporation Name _____

a _____Corporation.
(State of Incorporation)

Business Address_____

_____

Date _____ **Telephone** _____

By_____ *[Required]* ***[Seal]***

(☐President ☐Chief Executive Officer ☐Vice President) ***[Circle One]***

Print Name _____

By: _____ *[Required]*

(☐Secretary ☐Treasurer ☐Chief Financial Officer ☐Assistant Treasurer)

[Circle One]

Print Name: _____

JOINT VENTURE

Joint Venturer Name_____

Signed by_____ **(Joint Venturer)**

Print Name _____

Business Address_____

_____

Date_____ **Telephone** _____

Other Parties to Joint Venture:

If an individual joint venture _____ (Signature)

Print Name _____

If a DBA joint venture: _____ (Signature)

Print Name _____

If a partnership joint venture:

By _____
(Name)

Signed by_____ **,**Partner
(Signature)

Print Name _____

If a Corporation joint venture: ***[Seal]***

_____
(Name)

A _____ Corporation
(State of Incorporation)

Signed By _____

Print Name _____

Title _____